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<110> Xu, Jiangchun
Dillon, Davin C.
Mitcham, Jennifer L.
Harlocker, Susan L.
Jiang, Yuqiu
Kalos, Michael D.
Retter, Marc W.
Stolk, John A.
Day, Craig H.
Vedvick, Thomas S.
Carter, Darrick
Li, Samuel X.
Wang, Aijun
Skeiky, Yasir A.W.
Hepler, William T.
Henderson, Robert A.
Hural, John
McNeill, Patricia D.
Houghton, Raymond L.
Vinals de Bassols, Carlota
Foy, Teresa
Fanger, Gary R.
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<130> 210121.427C26

<141> 2001-06-29

<160> 990

<170> FastSEQ for Windows Version 3.0

<211> 814

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$ 

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (814)$  $\langle 223 \rangle \quad n = A, T, C \text{ or } G$ 

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tcttcgctt ctcgctcact nantcctgcg ctcggtcntt cggctgcggg gaacggtatc 720
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<210> 2
<211> 816
<212> DNA
<213> Homo sapien

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<220>
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<222> (1)...(816)
<223> n = A,T,C or G

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aagttttgcag atgtatttgc aaagaagacg aaggcagagt ggtgtcaaat ctttgacggc 240
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aacatacgag cgggaacata aagtgttaag cctgggggtgc ctaatgantg agctaactcn 600
cattaatgag gttgcgctca ctgcccgctt tccagtcggg aaaactgtcg tgccactgcn 660
ttantgaatc ngccaccccc cgggaaaagg cggttgcntt ttgggcctct tccgctttcc 720
tcgctcattg atcctngcnc ccggtcttcg gctgcggnga acggttcaact cctcaaaggc 780
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<210> 3
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<212> DNA
<213> Homo sapien

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<220>
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<223> n = A,T,C or G

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tctcaaaaag tcagaaccgg agtcacacag gcactctgtgc cgtcaaagat ttgacaccac 180
tctgccttcg tcttctttgc aaatacatct gcaaacttct tcttcatttc tggccaatca 240

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gtcgtataga aagggtgctcc accatccaac atgtttctgtc ctcgaggggg ggcccggtag 420
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gaatgggnaa atgggacccc cctgttaccg cgcattnaac ccccgcnagg tttngttggt 660
acccccacnt nnaccgctta cactttgccg gcgccttanc gcccgctccc tttnccttt 720
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<210> 4
<211> 828
<212> DNA
<213> Homo sapien

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<220>
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<222> (1)...(828)
<223> n = A,T,C or G

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acgtgggtga ccatgttggt tgtggggtgc agagatggga ggggtggggc ccacctgga 240
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acaatgcatg aggcacacac acagcaaggga tgacnctgta aacatagccc acgctgtcct 360
gngggcactg ggaagcctan atnaggccgt gagcanaaag aaggggagga tccactagtt 420
ctanagcggc cgccaccgcg gtgganctcc ancttttggt ccccttagtg agggttaatt 480
gcgcgcttgg cntaatcatg gtcatanctn tttcctgtgt gaaattgtta tccgctcaca 540
attccacaca acatacganc cggaacataa aantgtaaac ctgggggtgcc taatgantga 600
ctaactcaca ttaattgcgt tgcgctcact gccgcgtttc caatonggaa acctgtcttg 660
ccncttgcat tnatgaatcn gccaaccccc ggggaaaagc gtttgcgttt tgggcgctct 720
tccgcttctc cncctantta ntcctnncn tcggtcatte cggctgcngc aaaccggttc 780
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<210> 5
<211> 834
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(834)
<223> n = A,T,C or G

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<400> 5
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attttataac aatcaacacc tgtggctttt aaaatttggt tttcataaga taattttatac 180
tgaagtaa atagccatgc ttttaaaaaa tgcttttagt cactccaagc ttggcagtta 240
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taggccataa toatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag 360
aatagaatac cttggcctct atgcaaatat gtctagacac tttgattcac toagccctga 420

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cattcagttt tcaaagtagg agacagggtc tacagtatca ttttacagtt tccaacacat 480
tgaaaacaag tagaaaatga tgagttgatt tttattaatg cattacatcc tcaagagtta 540
tcaccaaccc ctcagttata aaaaattttc aagttatatt agtcatataa cttgggtgtgc 600
ttatttttaa ttagtgctaa atggattaag tgaagacaac aatgggtccc taatgtgatt 660
gatattggtc atttttacca gcttctaaat ctnaactttc aggcttttga actggaacat 720
tgnatnacag tgttccanag ttncaaccta ctggaacatt acagtgtgct tgattcaaaa 780
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<210> 6
<211> 818
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
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<223> n = A,T,C or G

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<400> 6
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ttantanggc ctantatgaa gaacttttgg antggaatta aatcaatngc ttggccggaa 720
gtcattanga nggctnaaaa ggccctgtta ngggtctggg ctnggtttta cccnaccat 780
ggaatncncc ccccgacna ntgnatccct attcttaa 818

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<210> 7
<211> 817
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

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<400> 7
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ggtttgctcc acagatttca gagcattgac cgtagtatac ccccggtcgt gtagcgggta 180
aagtgggttg gtttagacgt ccgggaattg catctgtttt taagcctaata gtggggacag 240
ctcatgagtg caagacgtct tgtgatgtaa ttattatacn aatggggggt tcaatcggga 300
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gaagtatgta ggaattgaag attaatccgc cgtagtcggt gttctcctag gttcaatacc 420
attggtggcc aattgatttg atggttaagg gagggatcgt tgaactcgtc tgttatgtaa 480
aggatncctt ngggatggga aggcnatnaa ggactangga tnaatggcgg gcangatatt 540

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tcaaacngtc	tctanttcct	gaaacgtctg	aaatgttaat	aanaattaan	tttngttatt	600
gaatnttnng	gaaaagggct	tacaggacta	gaaaccaa	angaaaanta	atnntaangg	660
cnttatcntn	aaaggtmata	accnctccta	tnatcccacc	caatngnatt	ccccacncnn	720
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cttnantgan	ggttattcnc	ccctngcntt	atcance			817

<210> 8  
 <211> 799  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
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ctgaagcgca	cgtcccagaa	gggtggacttg	gcactgaaac	agctgggaca	catccgcgag	180
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tctttgangt	gagccccatg	tccatctggg	ccactgtcng	gaccaccttt	ngggagtgtt	480
ctccttacaa	ccacannatg	cccggctcct	cccggaaacc	antcccancc	tgngaaggat	540
caagnccctgn	atccactnnt	nctanaaccg	gcncncnccg	cngtggaaacc	cnccttntgt	600
tccttttct	tnaggggttaa	tnnccgcttg	gccttnccan	ngtccctncc	nttttccnnt	660
gtnnaaattg	ttangcnccc	nccnntcccn	cnnennnnan	cccgaaccnn	annttnnann	720
nccctgggggt	nccnncgat	tgaccnnc	nccctntant	tgcnttnggg	nncnntgccc	780
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<210> 9  
 <211> 801  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(801)  
 <223> n = A,T,C or G

<400> 9						
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caaggacaag	gccaccaggt	gcggggggccg	aagcccacat	gacccctact	ctatgagcaa	180
aatccccctgt	gggggcttct	ccttgaagtc	cgccancagg	gctcagtctt	tggaccang	240
caggtcatgg	ggttgtngnc	caactggggg	ccncaacgca	aaanggcnc	gggcctcngn	300
cacccatccc	angacgcggc	tacactnctg	gacctccnc	tccaccactt	tcatgcgctg	360
ttcntaccgg	cgnatntgtc	ccanctgttt	cngtgcenac	tccancttct	nggaagtgcg	420
ctacatacgc	ccggantcnc	nctcccgtt	tgccctatc	cacgtncan	caacaaattt	480
cncntantg	caccnattcc	caenttttnc	agntttccnc	nncgngcttc	cttntaaaag	540
ggttganccc	cggaaaatnc	cccaaagggg	gggggcccng	tacccaactn	ccccctnata	600
gctgaantcc	ccatnaccnn	gnctcnatgg	ancntccnt	tttaannacn	ttctnaactt	660

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gggaanance ctcgnccnth ccccnnttaa tccncccttg cnangnnnt ccccnntcc 720
ncccnntng gcntntnann cnaaaaaggc ccnnnancaa tctcctnnen cctcanttgc 780
ccanccctcg aaatcgccn c 801

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<210> 10
<211> 789
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

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aataccgagg ggacactgga ggtgctagca gtgaggacag cctgatgacc agcttcctgc 240
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ccatcctgga tagtgcttcc tgcgtgccca ngtggcccca tccctgttta tgggctccat 480
tgtccagctc agccagtctg tcaactgcct tatggtgtct gccgcaggcc tgggtctggt 540
cccatttact ttgctacaca ggtantattt gacaagaacg anttggccaa atactcagcg 600
ttaaaaaatt ccagcaacat tgggggtgga aggcctgcct cactgggtcc aactccccgc 660
tctgtttaac cccatggggc tgcgggcttg gccgccaat tctgttgctg ccaaantnat 720
gtggctctct gctgccacct gttgctggct gaagtgenta cngcncanct ngggggggtng 780
ggngttccc 789

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<210> 11
<211> 772
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

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<400> 11
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accaacaggc cacatcctga taaaaggtaa gaggggggtg gatcagcaaa aagacagtgc 180
tgtgggctga ggggacctgg ttcttgtgtg ttgcccctca ggaactcttc cctacaaata 240
actttcatat gttcaaatec catggaggag tgtttcatcc tagaaactcc catgcaagag 300
ctacattaaa cgaagctgca ggtaagggg cttanagatg ggaaaccagg tgactgagtt 360
tattcagctc ccaaaaaccc ttctctaggt gtgtctcaac taggaggcta gctgttaacc 420
ctgagcctgg gtaatccacc tgcagagtc ccgcattcca gtgcatggaa cctttctggc 480
ctccctgtat aagtcagac tgaaaacccc ttggaaggnc tccagtcagg cagccctana 540
aactggggaa aaaagaaaag gacgccccan ccccagctg tgcanctacg cacctcaaca 600
gcacagggtg gcagcaaaaa aaccacttta ctttggcaca aacaaaaact ngggggggca 660
accccggcac cccnangggg gttaacagga ancngggnaa cntggaaccc aattnaggca 720
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<210> 12  
 <211> 751  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(751)  
 <223> n = A,T,C or G

<400> 12

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ttggctgtgt	tggtgacgtt	gtcattgcaa	cagaatgggg	gaaaggcact	gttctctttg	180
aagtanggtg	agtcctcaaa	atccgtatag	ttggtgaagc	cacagcactt	gagccctttc	240
atggtggtgt	tccacacttg	agtgaagtct	tcctgggaac	cataatcttt	cttgatggca	300
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agcagctgcn	acctcagcaa	tgaagatgan	gaggangatg	aagaagaacg	tcncgagggc	420
acacttgctc	tcagtccttan	caccatanca	gccentgaaa	accaananca	aagaccacna	480
cnccggctgc	gatgaagaaa	tnaccccncg	ttgacaaact	tgcatggcac	tggganccac	540
agtggcccna	aaaatcttca	aaaaggatgc	cccatacnatt	gaccccccaa	atgcccactg	600
ccaacagggg	ctgccccacn	cncnnaacga	tgancnatt	gnacaagatc	tncntgggtct	660
tnatnaacnt	gaacctgcn	tngtggctcc	tgttcaggnc	cnnggcctga	cttctnaann	720
aangaactcn	gaagncccca	cngganannc	g			751

<210> 13  
 <211> 729  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(729)  
 <223> n = A,T,C or G

<400> 13

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tgtggancct	cagcagtncc	ctctttcaga	actcantgcc	aaganccctg	aacaggagcc	120
accatgcagt	gcttcagctt	cattaagacc	atgatgatcc	tcttcaattt	gtcatctttt	180
ctgtgtggtg	cagccctggt	ggcagtgggc	atctgggtgt	caatcgatgg	ggcatccttt	240
ctgaagatct	tcgggccact	gtcgtccagt	gccatgcagt	ttgtcaacgt	gggtacttct	300
ctcatcgcag	ccggcgttgt	ggtcttagct	ctaggtttcc	tgggctgcta	tggtgctaag	360
actgagagca	agtgtgccct	cgtgacgttc	ttcttcatcc	tcctcctcat	cttcattgct	420
gaggttgcaa	tgtgtgggtc	gccttggtgt	acaccacaat	ggctgagcac	ttcctgacgt	480
tgtgtgtaat	gcctgccatc	aanaaaaagat	tatgggttcc	cagggaanact	tactcaagt	540
gttggaaacac	caccatgaaa	gggctcaagt	gctgtggctt	cnnccaacta	tacggatttt	600
gaagantcac	ctacttcaaa	gaaaaanagt	cctttccccc	atttctgttg	caattgacaa	660
acgtcccca	cacagccaat	tgaaaacctg	cacccaaccc	aaanggttcc	ccaaccanaa	720
attnaaggg						729

<210> 14  
 <211> 816  
 <212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(816)

<223> n = A,T,C or G

<400> 14

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ggcagggtcca	cgcagtgccc	tttgtcactg	gggaaatgga	tgcgctggag	ctcgtcaaag	180
ccactcgtgt	atctttcaca	ggcagcctcg	tccgacgcgt	cggggcagtt	gggggtgtct	240
tcacactcca	ggaaactgtc	natgcagcag	ccattgctgc	agcggaaactg	ggtgggctga	300
cangtgccag	agcacactgg	atggcgccct	tccatgnnan	gggccctgng	ggaaagtccc	360
tganccccan	anctgcctct	caaangcccc	accttgccac	ccccgacagg	ctagaatgga	420
atcttcttcc	cgaaggttag	ttnttcttgt	tgcccaancc	anccccntaa	acaaactctt	480
gcanatctgc	tccngggggg	tctantacc	anctgtggaa	aagaaccccc	ggcngcgaac	540
caancttggt	tggatnccga	gcnataatct	nctnttctgc	ttggtggaca	gcaccantna	600
ctgtnnanct	ttagnccntg	gtcctcntgg	ggtgnncttg	aacctaatcn	ccnntcaact	660
gggacaaggt	aantngccnt	cctttnaatt	cccnancntn	ccccctgggt	tgggggtttt	720
cncnctccta	ccccagaaan	nccgtgttcc	cccccaacta	ggggccnaaa	ccnnttnttc	780
cacaaccctn	ccccaccac	gggttcngnt	ggttng			816

<210> 15

<211> 783

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(783)

<223> n = A,T,C or G

<400> 15

ccaaggcctg	ggcaggcata	nacttgaagg	tacaaccccc	ggaacccctg	gtgctgaagg	60
atgtggaaaa	cacagattgg	cgctactgc	ggggtgacac	ggatgtcagg	gtagagagga	120
aagacccaaa	ccaggtggaa	ctgtggggac	tcaaggaang	cacctacctg	ttccagctga	180
cagtgaactag	ctcagaccac	ccagaggaca	cggccaacgt	cacagtcact	gtgctgtcca	240
ccaagcagac	agaagactac	tgcctcgcat	ccaacaangt	gggtcgctgc	cggggctctt	300
tcccacgctg	gtactatgac	cccacggagc	agatctgcaa	gagtttcgtt	tatggaggct	360
gcttgggcaa	caagaacaac	taccttcggg	aagaagagtg	cattctancc	tgtcnggggtg	420
tgcaagggtg	gcctttgana	ngcanctctg	gggtcangc	gactttcccc	cagggccct	480
ccatggaaag	gcgccatcca	ntgttctctg	gcacctgtca	gcccacccag	ttccgctgca	540
ncaatggctg	ctgcactnac	antttcctng	aattgtgaca	acacccccca	ntgcccccaa	600
ccctcccaac	aaagcttccc	tgttnaaaaa	tacnccantt	ggcttttnac	aaacncccg	660
cncctcctt	ttcccnntn	aacaaagggc	nctngcnttt	gaactgcccn	aaccnnggaa	720
tctnccnngg	aaaaantncc	ccccctgggt	cctnnaancc	cctccnchna	anctncccc	780
ccc						783

<210> 16

<211> 801

<212> DNA

<213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(801)  
 <223> n = A,T,C or G

<400> 16

gcccccaattc	cagctgccac	accacccacg	gtgactgcat	tagttcggat	gtcatacaaa	60
agctgattga	agcaaccctc	tacttttttg	togtgagcct	tttgcttggt	gcaggtttca	120
ttggctgtgt	tggtgacgtt	gtcattgcaa	cagaatgggg	gaaaggcact	gttctctttg	180
aagtaggggtg	agtcctcaaa	atccgtatag	ttggtgaagc	cacagcactt	gagccctttc	240
atggtggtgt	tccacacttg	agtgaagtct	tcctgggaac	cataatcttt	cttgatggca	300
ggcactacca	gcaacgtcag	gaagtgtca	gccattgtgg	tgtacaccaa	ggcgaccaca	360
gcagctgcaa	cctcagcaat	gaagatgagg	aggaggatga	agaagaacgt	cncgagggca	420
cacttgctct	ccgtcttagc	accatagcag	cccangaaac	caagagcaaa	gaccacaacg	480
ccngctgcga	atgaaagaaa	ntacccacgt	tgacaaaactg	catggccact	ggacgacagt	540
tggcccgaa	atcttcagaa	aagggatgcc	ccatcgattg	aacacccana	tgcccactgc	600
cnacagggct	gcncncnncn	gaaagaatga	gccattgaag	aaggatcttc	ntgggtcttaa	660
tgaactgaaa	cctgtcattg	tggtccctgt	tcagggtctc	tggcagtga	ttctganaaa	720
aaggaacngc	ntnagcccc	ccaaangana	aaacaccccc	gggtgttgcc	ctgaattggc	780
ggccaaggan	ccctgccccn	g				801

<210> 17  
 <211> 740  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(740)  
 <223> n = A,T,C or G

<400> 17

gtgagagcca	ggcgccctc	tgcccgccca	ctcagtgcca	acacccggga	gctgttttgt	60
cctttgtgga	gcctcagcag	ttccctcttt	cagaactcac	tgccaagagc	cctgaacagg	120
agccaccatg	cagtgtctca	gcttcattaa	gaccatgatg	atcctcttca	atttgctcat	180
ctttctgtgt	ggtgcagccc	tggtggcagt	gggcatctgg	gtgtcaatcg	atggggcatc	240
ctttctgaag	atcttcgggc	cactgtcgtc	cagtgccatg	cagtttgtca	acgtgggcta	300
cttcctcatc	gcagccggcg	ttgtgggtctt	tgctcttggt	ttcctgggct	gctatgggtc	360
taagacggag	agcaagtgtg	ccctcgtgac	gttcttcttc	atcctcctcc	tcctcttcat	420
tgctgaagtt	gcagctgctg	tggtcgccct	ggtgtacacc	acaatggctg	aaccattcct	480
gacgttgctg	gtantgcctg	ccatcaanaa	agattatggg	ttcccaggaa	aaattcactc	540
aantntggaa	caccnccatg	aaaagggctc	caatttctgn	tggtctcccc	aactataccg	600
gaattttgaa	agantcnccc	tacttccaaa	aaaaaanant	tgcccttncc	ccnttctgt	660
tgcaatgaaa	acntcccaan	acngccaatn	aaaacctgcc	cnnncaaaaa	ggntcncaaa	720
caaaaaaant	nnaagggttn					740

<210> 18  
 <211> 802  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(802)

<223> n = A,T,C or G

<400> 18

ccgctggttg	cgctgggtcca	gnagnagccac	gaagcacgtc	agcatacaca	gcctcaatca	60
caaggtcttc	cagctgccgc	acattacgca	gggcaagagc	ctccagcaac	actgcatatg	120
ggatacactt	tacttttagca	gccagggtga	caactgagag	gtgtcgaagc	ttattcttct	180
gagcctctgt	tagtggagga	agattccggg	cttcagctaa	gtagtcagcg	tatgtcccat	240
aagcaaacac	tgtgagcagc	cggaaggtag	aggcaaagtc	actctcagcc	agctctctaa	300
cattgggcat	gtccagcagt	tctccaaaca	cgtagacacc	agnggcctcc	agcacctgat	360
ggatgagtgt	ggccagcgct	gcccccttgg	ccgacttggc	taggagcaga	aattgctcct	420
ggttctgccc	tgtaaccttc	acttccgcac	tcatactgac	actgagtgtg	ggggacttgg	480
gctcaggatg	tccagagacg	tggttccgcc	ccctcnctta	atgacaccgn	ccanncaacc	540
gtcggctccc	gccgantgng	ttcgctgtn	ctgggtcagg	gtctgtgtgc	cnctacttgc	600
aancttcgtc	nggcccattg	aattcaccnc	accggaactn	gtangatcca	ctnnttctat	660
aaccggnccg	caccgcnmnt	ggaactccac	tcttnttnc	tttacttgag	ggttaaggtc	720
acccttnnccg	ttaccttggt	ccaaaccntn	cctgtgtgtg	anatngtnaa	tenggnccna	780
tnccancnc	atangaagcc	ng				802

<210> 19

<211> 731

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(731)

<223> n = A,T,C or G

<400> 19

cnaagcttcc	aggtnacggg	ccgcnaancc	tgaccnagg	tancanaang	cagnnngcgg	60
gagcccaccg	tcacngngng	gngtctttat	nggagggggc	ggagccacat	cnctggaent	120
cntgacccca	actcccnc	ncncantgca	gtgatgagtg	cagaactgaa	ggtnacgtgg	180
caggaaccaa	gancaaannc	tgctccnntc	caagtcggcn	nagggggcgg	ggctggccac	240
gcnatccnt	cnagtgtctgn	aaagccccnn	cctgtctact	tgtttgaga	acngcnnga	300
catgcccagn	gttanataac	nggengagag	tnantttgcc	tctcccttcc	ggctgcgcan	360
cgngtntgct	tagnggacat	aacctgacta	cttaactgaa	ccnngaate	tnccnccct	420
ccactaagct	cagaacaaaa	aacttcgaca	ccactcantt	gtcacctgnc	tgctcaagta	480
aagtgtaccc	catncccaat	gtntgctnga	ngctctgncc	tgcnttangt	tcggtectgg	540
gaagacctat	caattnaagc	tatgtttctg	actgcctctt	gctccctgna	acaancnacc	600
cnnccntcca	aggggggggnc	ggcccccaat	ccccccaacc	ntnaattnan	tttancccn	660
ccccnggcc	cggcctttta	cnanontcnn	nnacngggna	aaaccnnngc	tttncccaac	720
nnaatccncc	t					731

<210> 20

<211> 754

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(754)

<223> n = A,T,C or G

<400> 20

```

tttttttttt tttttttttt taaaaacccc ctccattnaa tgnaaacttc cgaaattgtc      60
caacccccctc ntccaaatnn ccttttcggg gnggggggttc caaacccaan ttanntttgg      120
annttaaatt aaatnttntt tggnggnnna anccnaatgt nangaaagtt naaccanta      180
tnancttnaa tncctggaaa ccngtngntt ccaaaaaatnt ttaaccctta antccctcgg      240
aaatngttna nggaaaaccc aanttctcnt aaggttgttt gaaggntnaa tnaaaanccc      300
nnccaattgt ttttngccac gcctgaatta attggnnttc gntgttttcc nttaaaanaa      360
ggnnancccc gggtantnaa tccccccnnc cccaattata ccganttttt ttingaattgg      420
gancccnccg gaattaacgg ggnnnntccc tnttgggggg cnggnncccc ccccntcggg      480
ggttngggnc aggncnnaat tgtttaaggg tccgaaaaat ccctccnaga aaaaaanctc      540
ccaggntgag nntngggttt nccccccccc canggccctc ctcgnaagtt tgggggttgg      600
ggggcctggg attttntttc cctnttntcc tccccccccc ccnggganag aggttngngt      660
tttgntcnnc ggcccnccn aaganctttn ccganttnan ttaaatecnt gcctnggcga      720
agtcenntgn aggnntaaan ggccccctnn cggg                                     754

```

```

<210> 21
<211> 755
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

```

```

<400> 21
atcancccat gaccccnnaac nngggaccnc tcanccggnc nnncnaccnc cggccnatca      60
nngtnagnnc actncnnttn natcacnccc cncnactac gcccncnanc cnacgcncta      120
nncanatncc actganngcg cgangtngan ngagaaanct nataccanag ncaccanacn      180
ccagctgtcc nanaangcct nnnatacnng nnnatccaat ntgnancctc cnaagtattn      240
nncnncanat gattttcctn anccgattac cctntcccc cctnccctcc cccccaacna      300
cgaaggcnct ggncnaagg nngcgnccnc ccgctagntc cccnncagtt cncncncccta      360
aactcanccn nattacnccg ttcntgagta tcactccccc aatctcacc tactcaactc      420
aaaaanatch gatacaaaat aatncaagcc tgnttatnag actntgactg ggtctctatt      480
ttagnngtcc ntnaanctc ctaataacttc cagctctncc tcnccaattt ccnaanggct      540
ctttcngaca gcatnttttg gttcccnntt ggggttcttan ngaattgccc ttcntngaac      600
gggctctctt tttccttcgg ttancctggg ttcnncgggc cagttattat ttcccntttt      660
aaattctnnc cntttanttt tggcnttcna aacccccggc cttgaaaacg gccccctggt      720
aaaaggttgt tttganaaaa tttttgtttt gtccc                                     755

```

```

<210> 22
<211> 849
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(849)
<223> n = A,T,C or G

```

```

<400> 22
tttttttttt tttttangtg tngtcgtgca ggtagaggct tactacaant gtgaanacgt      60
acgctnggan taangcgacc cgantttctag ganncnccct aaaatcanac tgtgaagatn      120
atcctgnnna cggaanggtc accggnggat nntgctaggg tgnccnctcc cannnenttn      180
cataactcng nggcctgcc caccaccttc ggcggcccng ngncggggcc cgggtcattn      240

```

```
<210> 23
<211> 872
<212> DNA
<213> Homo sapien
```

<400> 23

```
<210> 24
<211> 815
<212> DNA
<213> Homo sapien
```

<400> 24

gcattgcaagc	ttgagtattc	tatagngtca	cctaaatanc	ttggcntaat	catgggtenta	60
nctgnccttc	tgtgtcaaat	gtatacnaan	tanatatgaa	tctnatntga	caaganngta	120
tctnncatta	gtaacaantg	tnntgtccat	cctgtcngan	canattccca	tnnattncgn	180
cgcattcncn	gcncantatn	taatngggaa	ntcnntntnn	ncaccnncat	ctatcntncc	240



```
<210> 25
<211> 775
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G
```

```
<210> 26
<211> 820
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(820)  
<223> n = A,T,C or G
```

<400> 26						
anattantac	agtgtaatct	tttcccagag	gtgtgtanag	ggaacggggc	ctagaggcat	60
cccanagata	ncttatanca	acagtgcttt	gaccaagagc	tgtctgggcac	atttcctgca	120
gaaaagggtg	cggtcccat	cactcctcct	ctcccatagc	catcccagag	gggtgagtag	180
ccatcangcc	ttcggtgga	gggagtcang	gaaacaacan	accacagagc	anacagacca	240
ntgatgacca	tgggggggag	cgagcctctt	ccctgnaccg	gggtggcana	nganagccta	300
ntgaggggt	cacactataa	acgttaacga	ccnagatnan	cacctgcttc	aagtgcaccc	360
ttcctacctg	acnaccagng	accnnaact	gcngcctggg	gacagcnctg	gganacgcta	420

```

acnnagcaact cacctgcccc cccatggccg tncgcntccc tggctcctgnc aaggggaagct      480
ccctgttgga attncgggga naccaaggga nccccctcct ccancgtgtga aggaaaaaann      540
gatggaattt tnccttcccg gccnntcccc tcttccctta cacgccccct nntactcntc      600
tccctctntt ntectgnenc acttttnacc ccnnnatctt ccttnattga tcggannctn      660
ganattccac tnnccgctnc cntcnatcng naanacnaaa nactntctna cccnggggat      720
gggnncctcg ntcatectct ctttttctct accnccnntt ctttgccctct ccttngatca      780
tccaaccntc gntggccntn cccccccnnn tccttttccc      820

```

```

<210> 27
<211> 818
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

```

```

<400> 27
tctgggtgat ggccctcttc tectcagggg cctctgactg ctctgggcca aagaatctct      60
tgtttcttct ccgagcccca ggcagcgggtg attcagccct gcccaacctg attctgatga      120
ctgcggtatgc tgtgacggac ccaaggggca aatagggtcc caggggccag ggaggggcgc      180
ctgctgagca ctcccgcccc tcacctgcc cagccctgc catgagctct gggctgggtc      240
tcgcctcca gggttctgct ctccangca ngccancaag tggcgtggg ccacactggc      300
ttcttccctgc ccctccctg gctctganc tctgtcttc tgtcctgtgc angcnccttg      360
gatctcagtt tccctcnctc anngaactct gtttctgann tcttcantta actntgantt      420
tatnaccnan tggnetgtnc tgtcnnactt taatgggcn gaccggctaa tccctccctc      480
nctcccttcc anttccnnna accngcttnc cntcntctcc cctancccc ccngggaanc      540
ctcctttgcc ctnaccangg gccnnnaccg ccctnnctn ggggggcnn gtnnctncnc      600
ctgntnnccc cncctcnctt tncctcgctc cncnncnngc nngcannttc ncngtcccn      660
tnnctcttct ngntctgnaa ngntcnctn tnnnnngnnc ngntnntnct tccctctcnc      720
cnnntgnang tnnttnnnnc ncngncccc nnnncnnnnn nggnntnnn tctnncngc      780
cccncccc ngnattaagg cctccnctc ccggccnc      818

```

```

<210> 28
<211> 731
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

```

```

<400> 28
aggaagggcg gagggatatt gtangggatt gagggatagg agnataangg gggaggtgtg      60
tccaacatg anggtgnngt tctcttttga angagggttg ngtttttann ccnggtgggt      120
gattnaaccc cattgtatgg agnnaaagg ttnagggtat ttttcggctc ttatcagtat      180
ntanatctct gtnaatcgga aaatnatntt tcnnnnggaa aatnttgctc ccatccgnaa      240
attnctcccg ggtagtgcac nttngggggn cngccangtt tcccaggetg ctanaatcgt      300
actaaagntt naagtgggan tncaaatgaa aacctnnac agagnatccn tacccgactg      360
tnnnttncct tcgcccctng actctgcnng agcccaatac ccnngnngnat gtncnccngn      420
nnngcgnenc tgaaannnnc tcngggctnn gancatcang gggtttcgca tcaaaagenn      480
cgtttcnct naaggcactt tngcctcatc caaccnctng ccctcncca tttngccgtc      540

```

```
<210> 29
<211> 822
<212> DNA
<213> Homo sapien
```

<400> 29

```
<210> 30
<211> 787
<212> DNA
<213> Homo sapien
```

<400> 30

cggcgcgctg	ctctggcaca	tgcctcctga	atggcatcaa	aagtgatgga	ctgccattg	60
ctagagaaga	ccttctctcc	tactgtcatt	atggagccct	gcagactgag	ggctcccctt	120
gtctgcagga	tttgatgtct	gaagtcgtgg	agtgtggctt	ggagctcctc	atctacatna	180
gctggaagcc	ctggagggcc	tctctcgcca	gcctccccct	tctctccacg	ctctccangg	240
acaccagggg	ctccaggcag	cccattattc	ccagnangac	atgggtgttc	tccacgcgga	300
cccatggggc	ctgnaaggcc	agggtctcct	ttgacaccat	ctctcccgtc	ctgcctggca	360
ggcgtgga	tccactantt	ctanaacggn	cgccaccncg	gtgggagctc	cagcttttgt	420
tcccnttaat	gaaggttaat	tgcncgcttg	gcgtaatcat	nggtcanaac	tntttcctgt	480
gtgaaattgt	ttntcccttc	ncnattccnc	ncnacatacn	aaccgggaan	cataaagtgt	540
taaagcctgg	gggtngcctn	nngaatanac	tnaactcaat	taattgcgtt	ggctcatggc	600
cgctttccn	ttcngaaaaa	ctgtctctcc	ctgcntntnt	gaattgcgca	cccccatggg	660
aaaagcggtt	tgcnttttng	gggntcctt	ccncttcccc	cctcncnaan	ccctncgctt	720

eggtcgttnc nggtngcggg gaangggnat nnnctcccnc naagggggng agnnngntat 780  
ccccaaa 787

<210> 31  
<211> 799  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(799)  
<223> n = A,T,C or G

<400> 31

tttttttttt	tttttttggc	gatgctactg	tttaattgca	ggaggtgggg	gtgtgtgtac	60
catgtaccag	ggctattaga	agcaagaagg	aaggaggagg	ggcagagcgc	cctgctgagc	120
aacaaaggac	tcctgcagcc	ttctctgtct	gtctcttggc	gcaggcacat	ggggaggcct	180
cccgcagggt	gggggccacc	agtccagggg	tgggagcact	acanggggtg	ggagtgggtg	240
gtggtgtgtn	cnaatggcct	gncacanatc	cctacgattc	ttgacacctg	gatttcacca	300
ggggaccttc	tgttctccca	nggnaacttc	ntnnatctcn	aaagaacaca	actgtttctt	360
cngcanttct	ggctgttcat	ggaaagcaca	ggtgtccnat	ttnggctggg	acttgggtaca	420
tatggttccg	gcccacctct	ccntcnaaan	aagtaattca	ccccccccc	ccntctnttg	480
cctggggcct	taantaccca	caccggaact	canttantta	ttcatcttng	gntgggcttg	540
ntnatcnecn	cctgaangcg	ccaagttgaa	aggccacgcc	gtncnccctc	cccatagnan	600
nttttnnct	canctaatac	ccccccnggc	aacnatccaa	tccccccccc	tggggggccc	660
agccanggc	ccccgncctg	ggnnnccngn	cncgnantcc	ccaggntctc	ccantcngnc	720
ccnnngcncc	ccgcacgcga	gaacanaagg	ntngagccnc	cgcannnnnn	nggtnncnac	780
ctcgcccccc	ccnncgnng					799

<210> 32  
<211> 789  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(789)  
<223> n = A,T,C or G

<400> 32

tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
ttttncnag	ggcaggttta	ttgacaacct	cncgggacac	aancaggctg	gggacaggac	120
ggcaacaggc	tccggcggcg	gcggcggcgg	ccctacctgc	ggtaccaa	ntgcagcctc	180
cgtccccgct	tgatnttcc	ctgcagctgc	aggatgccnt	aaaacagggc	ctcggccntn	240
ggtgggcacc	ctgggatttn	aatttccacg	ggcacaatgc	ggtcgcanc	cctcaccacc	300
nattaggaat	agtgtntta	ccnccnccg	ttggcncact	ccccntggaa	accacttntc	360
gcggctccgg	catctggtct	taaaccttgc	aaacnctggg	gcctcttttt	tggttantnt	420
nccngccaca	atcatnactc	agaactggcnc	gggctggccc	caaaaaancn	ccccaaaacc	480
ggncatgtc	ttncgggggt	tgtctgenatn	tncatcacct	cccgggcnca	ncaggncaac	540
ccaaaagttc	ttngggcccn	caaaaaanct	ccgggggggnc	ccagtttcaa	caaagtcac	600
ccccttggcc	cccaaactct	ccccccgntt	netgggtttg	ggaacccacg	cctctnnott	660
tggnnggcaa	gntggntccc	ccttcggggc	cccgggtgggc	ccnctctaa	ngaaaacncc	720
ntcctnnnca	ccatcccccc	nngnnacgnc	tancaangna	tccctttttt	tanaaacggg	780
ccccccncc						789

<210> 33  
 <211> 793  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(793)  
 <223> n = A,T,C or G

<400> 33

gacagaacat	gttggatggt	ggagcacctt	tctatacgac	ttacaggaca	gcagatgggg	60
aattcatggc	tggtggagca	atanaacccc	agttctacga	gctgctgac	aaaggacttg	120
gactaaagtc	tgatgaactt	cccaatcaga	tgagcatgga	tgattggcca	gaaatgaana	180
agaagtttgc	agatgtattt	gcaaagaaga	cgaaggcaga	gtggtgtcaa	atctttgacg	240
gcacagatgc	ctgtgtgact	ccggttctga	cttttgagga	ggttgttcat	catgatcaca	300
acaangaacg	gggtcgtttt	atcaccantg	aggagcagga	cgtgagcccc	cgccctgcac	360
ctctgctggt	aaacacccca	gccatccctt	ctttcaaaaag	ggatccacta	cttctagagc	420
ggncgccacc	gcggtggagc	tccagctttt	gttcccttta	gtgagggtta	attgcgcgct	480
tggcgtaatc	atggtcatan	ctgtttcctg	tgtgaaattg	ttatccgctc	acaattccac	540
acaacatacg	anccggaagc	atnaaatttt	aaagcctggn	ggtngcctaa	tgantgaact	600
naetacatt	aattggcttt	gcgctcactg	cccgttttcc	agtccggaaa	acctgtcctt	660
gccagctgcc	nttaatgaat	cnggccaccc	cccggggaaa	aggcngtttg	cttnttgggg	720
cgencttccc	gctttctcgc	ttcctgaant	ccttcccccc	ggtctttcgg	cttgcggcna	780
acggtatcna	cct					793

<210> 34  
 <211> 756  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(756)  
 <223> n = A,T,C or G

<400> 34

gccgcgaccg	gcatgtacga	gcaactcaag	ggcgagtgga	accgtaaaaag	ccccaatctt	60
ancaagtgcg	gggaanagct	gggtcgactc	aagctagttc	ttctggagct	caacttcttg	120
ccaaccacag	ggaccaagct	gaccaaacag	cagctaattc	tggtccgtga	catactggag	180
atcggggccc	aatggagcat	cctacgcaan	gacatcccct	ccttcgagcg	ctacatggcc	240
cagctcaaat	gctactactt	tgattacaan	gagcagctcc	ccgagtcagc	ctatatgcac	300
cagctcttgg	gcctcaacct	cctcttctctg	ctgtcccaga	accgggtggc	tgantnccac	360
acgganttgg	ancggctgcc	tgcccaanga	catacanacc	aatgtctaca	tcnaccacca	420
gtgtccttga	gcaatactga	tgganggcag	ctaccncaaa	gtnttctctg	ccnagggtaa	480
catccccgcg	cgagagctac	accttcttca	ttgacatcct	gctcgacact	atcagggatg	540
aaaatcgeng	ggttgctcca	gaaaggctnc	aanaanatcc	ttttcnctga	aggcccccg	600
atnncntagt	nctagaatcg	gcccgccatc	gcggtgganc	ctccaacctt	tcgttnccct	660
ttactgaggg	ttnattgccg	cccttgccgt	tatcatggtc	acnccngttn	cctgtgttga	720
aattnttaac	ccccacaaat	tccacgccna	cattnng			756

<210> 35  
 <211> 834

<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(834)  
<223> n = A,T,C or G

<400> 35

ggggatctct	anatcnacct	gnatgcatgg	ttgtcgggtgt	ggtcgctgtc	gatgaanatg	60
aacaggatct	tgcccttgaa	gctctcggct	gctgtnttta	agttgctcag	tctgccgtca	120
tagtcagaca	cnctcttggg	caaaaaacan	caggatntga	gtcttgattt	cacctccaat	180
aatcttcngg	gctgtctgct	cggatgaactc	gatgacnang	ggcagctggg	tgtgtntgat	240
aaantccanc	angttctcct	tggtgacctc	cccttcaaag	ttgttccggc	cttcatcaaa	300
cttctnnaan	angannancc	cancctttgtc	gagctggnat	ttgganaaca	cgtcactggt	360
ggaaactgat	cccaaattgg	atgtcatcca	tgcctctgtc	tgcctgcaaa	aaacttgctt	420
ggcncaaatac	cgactccccc	tccttgaaag	aagcchatca	cacccccctc	cctggactcc	480
nncaangact	ctnccgctnc	ccntccnng	cagggttggt	ggcannccgg	gcccctgcgc	540
ttcttcagcc	agttcacnat	nttcatcagc	ccctctgcc	gctgttntat	tccttggggg	600
ggaanccgtc	tctcccttcc	tgaannaact	ttgaccgtng	gaatagccgc	gcntcncnt	660
acntnctggg	ccgggttcaa	antccctccn	ttgncnntcn	cctcgggcca	ttctggattt	720
nccnaacttt	ttccttcccc	cncctccnng	ngtttggnnt	tttcatnggg	ccccaaactct	780
gctnttggcc	antccctctg	gggcntntan	cncctccnt	ggcc		834

<210> 36  
<211> 814  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(814)  
<223> n = A,T,C or G

<400> 36

cgngcgtttt	cngccgcgc	cccgtttcca	tgaacnaaggc	tcccttcang	ttaaatacnn	60
cctagnaaac	attaatgggt	tgtctacta	atacatcata	cnaaccagta	agcctgcca	120
naacgccaac	tcaggccatt	cctaccaaag	gaagaaaggc	tggtctctcc	acccctgta	180
ggaaaggcct	gccttgtaag	acaccacaat	ncggctgaat	ctnaagtctt	gtgttttact	240
aatggaaaaa	aaaaataaac	aanagggttt	gttctcatgg	ctgcccaccg	cagcctggca	300
ctaaaacanc	ccagcgctca	cttctgcttg	ganaaatatt	ctttgctctt	ttggacatca	360
ggcttgatgg	tatcactgcc	acntttccac	ccagctgggc	ncccttcccc	catntttgtc	420
antganctgg	aaggcctgaa	ncttagtctc	caaaagtctc	ngcccacaag	accggccacc	480
aggggagntc	ntttncagtg	gatctgccaa	anantaccn	tatcatcnnt	gaataaaaag	540
gcccctgaac	ganatgcttc	cancancctt	taagacccat	aatcctngaa	ccatggtgcc	600
cttcgggtct	gatecnaaag	gaatgttcc	gggtcccant	ccctcctttg	ttncettaagt	660
tgtnttggac	ccntgctngn	atnaccnaan	tganatcccc	ngaagcacc	tnccctggc	720
atttganttt	cntaaattct	ctgcctacn	nctgaaagca	cnattccctn	ggcnccnaan	780
ggngaactca	agaaggctcn	ngaaaaacca	cncn			814

<210> 37  
<211> 760  
<212> DNA  
<213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(760)  
 <223> n = A,T,C or G

<400> 37  
 gcatgctgct cttectcaaa gttgttcttg ttgccataac aaccaccata ggtaaagcgg 60  
 gcgcagtgtt cgctgaagg gttgtagtac cagcgcgga tgctctcctt gcagagtcct 120  
 gtgtctggca ggtccacgca atgccctttg tcaactggga aatggatgcg ctggagctcg 180  
 tcnaanccac tcgtgtatatt ttcacangca gcctcctccg aagcntccgg gcagttgggg 240  
 gtgtcgtcac actccactaa actgtcgatn cancagccca ttgctgcagc ggaactgggt 300  
 gggtgacag gtgccagaac aactggatn ggcttttcca tggaggggcc tgggggaaat 360  
 cncctnancc caaactgcct ctcaaaggcc accttgaca ccccgacagg ctagaaatgc 420  
 actcttcttc ccaaaggtag ttgttcttgt tgcccaagca ncctccanca aaccaaanc 480  
 ttgcaaaatc tgctccgtgg gggcatnnn taccanggtt ggggaaanaa acccgcnngn 540  
 ganccnctt gtttgaatgc naaggnaata atcctcctgt cttgcttggg tggaaanagca 600  
 caattgaact gttaacnttg ggccngttc cncnnggtg gtctgaaact aatcacggtc 660  
 actggaaaaa ggtangtgcc ttccttgaat tcccaantt cccctngntt tgggtntttt 720  
 ctctctncc ctaaaaatcg tnttcccccc cntanggcg 760

<210> 38  
 <211> 724  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(724)  
 <223> n = A,T,C or G

<400> 38  
 tttttttttt tttttttttt tttttttttt tttttaaaaa cccctccat tgaatgaaaa 60  
 ctccnaaat tgtccaacc cctcnccaa atnccattt ccgggggggg gttccaaacc 120  
 caaatattt ttgganttta aattaaatnt tnattngggg aanaanccaa atgtnaagaa 180  
 aatttaacc attatnaact taaatnctn gaaaccntg gnttccaaaa atttttaacc 240  
 cttaaattcc tcgaaattg ntaanggaaa accaaattcn cctaaggctn tttgaagggt 300  
 ngatttaaac ccccttnant tnttttnacc cnnngctnaa ntatttngnt tccggtgttt 360  
 tctnttaan cntnggtaac tcccngtaat gaannnccct aanccaatta aaccgaattt 420  
 ttttgaatt ggaaattccn ngggaattna ccgggggttt tccnttttg gggccatncc 480  
 cccnctttcg ggggttgggn ntagggtgaa tttttnnang nccccaaaaa ncccccaana 540  
 aaaaaactcc caagnnttaa ttngaantnc ccccttccca ggcttttttg gaaaggnggg 600  
 ttntggggg ccngggantt cnttccccn ttncncccc ccccccnggt aaanggttat 660  
 ngnttttgt ttttgggcc cttnanggac cttccgatn gaaattaaat ccccggnngc 720  
 gccg 724

<210> 39  
 <211> 751  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(751)





```
<210> 45
<211> 234
<212> DNA
<213> Homo sapien
```

```

<400> 45
acaacagacc cttgctcgtt aacgacotca tgetcatcaa gttggacgaa tccgtgtccg      60
agtctgacac catccggagc atcagcattg cttcgcagtg ccctaccgcg gggaactctt      120
gcctcgtttc tggctggggg ctgctggcga acggcagaat gcctaccgtg ctgcagtgcg      180
tgaacgtgtc ggtggtgtct gaggaggtct gcagtaagct ctatgacccg ctgt          234

```

```

<210> 46
<211> 590
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(590)
<223> n = A,T,C or G

```

```

<400> 46
acttttttatt taaatgttta taaggcagat ctatgagaat gatagaaaac atggtgtgta      60
atttgatagc aatatgttgg agattacaga gtttttagtaa ttaccaatta cacagttaaa      120
aagaagataa tatattccaa gcanatacaa aatatctaag gaaagatcaa ggcaggaaaa      180
tgantataac taattgacaa tggaaaatca attttaatgt gaattgcaca ttatccttta      240
aaagctttca aaanaaanaa ttattgcagt ctanttaatt caaacagtggt taaatgggtat      300
caggataaan aactgaaggg canaaagaat taattttcac ttcattgtaac ncacccanac      360
ttacaatggc ttaaatgcan ggaaaaagca gtggaagtag ggaagtantc aaggtctttc      420
tggctctctaa tctgccttac tctttgggtg tggctttgat cctctggaga cagctgccag      480
ggctcctgtt atatccacaa tcccagcagc aagatgaagg gatgaaaaag gacacatgct      540
gecttccttt gaggagactt catctcactg gccaacactc agtcacatgt          590

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```

<210> 47
<211> 774
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

```

```

<400> 47
acaagggggc ataatgaagg agtgggggana gatttttaag aaggaaaaaa aacgaggccc      60
tgaacagaat ttctcgtnac aacggggcctt caaaataatt ttcttgggga gggtcaagac      120
gcttcaactgc ttgaaactta aatggatgtg ggacanaatt ttctgtaatg accctgaggg      180
cattacagac gggactcttg gaggaaggat aaacagaaag gggacaaaag ctaatcccaa      240
aacatcaaag aaaggaagggt ggcgtcctac ctcccagcct acacagttct ccagggtctt      300
cctcatcctt ggaggacgac agtggaggaa caactgacca tgtccccagg ctctgtgtg      360
ctggctcctg gtcttcagcc cccagctctg gaagcccacc ctctgtgtat cctgcgtggc      420
ccacactcct tgaacacaca tcccaggtt atattccttg acatggctga acctcctatt      480
cctacttccg agatgccttg ctccctgcag cctgtcaaaa tcccactcac cctccaaaacc      540
acggcatggg aagcctttct gacttgcttg attactccag catcttgga caatccctga      600
ttccccactc cttagaggca agataggggtg gttaagagta gggctggacc acttgagacc      660
aggctgctgg cttcaaattn tggctcattt acgagctatg ggaccttgga caagtnatct      720
tcacttctat gggcttcatt ttgttctacc tgcaaaatgg gggataataa tagt          774

```

<210> 48  
 <211> 124  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(124)  
 <223> n = A,T,C or G

<400> 48  
 canaaattga aattttataa aaaggcattt ttctcttata tccataaaat gatataattt 60  
 ttgcaantat anaaatgtgt cataaattat aatgttcctt aattacagct caacgcaact 120  
 tggt 124

<210> 49  
 <211> 147  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(147)  
 <223> n = A,T,C or G

<400> 49  
 gccgatgcta ctattttatt gcaggaggtg ggggtgtttt tattattctc tcaacagctt 60  
 tgtggctaca ggtgggtgtct gactgcatna aaaanttttt tacgggtgat tgcaaaaatt 120  
 ttagggcacc catatcccaa gcantgt 147

<210> 50  
 <211> 107  
 <212> DNA  
 <213> Homo sapien

<400> 50  
 acattaaatt aataaaagga ctgttgggggt tctgctaaaa cacatggctt gatatatatgc 60  
 atggtttgag gttaggagga gttaggcata tgttttggga gaggggt 107

<210> 51  
 <211> 204  
 <212> DNA  
 <213> Homo sapien

<400> 51  
 gtcttaggaa gtctagggga cacacgactc tggggtcacg gggccgacac acttgacagg 60  
 cggaaggaa aggcagagaa gtgacaccgt cagggggaaa tgacagaaag gaaaatcaag 120  
 gcottgcaag gtcagaaagg ggactcaggg ctccaccac agccctgccc cacttgcca 180  
 cctccctttt gggaccagca atgt 204

<210> 52  
 <211> 491  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(491)  
 <223> n = A,T,C or G

<400> 52  
 acaaagataa catttatctt ataacaaaaa tttgatagtt ttaaagggtta gtattgtgta 60  
 ggggtattttc caaaagacta aagagataac tcagggtaaaa agttagaaat gtataaaaaca 120  
 ccatcagaca gggtttttaa aaacaacata ttacaaaatt agacaatcat ccttaaaaaa 180  
 aaaacttctt gtatcaattt cttttgttca aaatgactga cttaantatt tttaaatatt 240  
 tcanaaacac ttcttcaaaa attttcaana tggtagcttt canatgtnc ctcagtccca 300  
 atgttgctca gataaataaa tctcgtgaga acttaccacc caccacaagc tttctggggc 360  
 atgcaacagt gtcttttctt tnttttttct tttttttttt ttacaggcac agaaactcat 420  
 caattttatt tggataacaa agggctctcca aattatattg aaaaataaat ccaagttaat 480  
 atcactcttg t 491

<210> 53  
 <211> 484  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(484)  
 <223> n = A,T,C or G

<400> 53  
 acataattta gcagggctaa ttaccataag atgctattta ttaanaggtn tatgatctga 60  
 gtattaacag ttgctgaagt ttgggtattt tatgcagcat tttctttttg ctttgataac 120  
 actacagaac ccttaaggac actgaaaatt agtaagtaaa gttcagaaac attagctgct 180  
 caatcaaate tctacataac actatagtaa ttaaaacggt aaaaaaaagt gttgaaatct 240  
 gcactagtat anaccgtcc tgtcaggata anactgctt ggaacagaaa gggaaaaanc 300  
 agctttgant ttctttgtgc tgatangagg aaaggctgaa ttaccttggt gcctctccct 360  
 aatgattggc aggtcnggta aatnccaaaa catattccaa ctcaacactt cttttccncc 420  
 tancttgant ctgtgtattc caggancagg cggatggaat gggccagccc ncggatgttc 480  
 cant 484

<210> 54  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 54  
 actaaacctc gtgcttgtga actccataca gaaaacggtg ccatccctga acacggctgg 60  
 ccactgggta tactgctgac aaccgcaaca acaaaaaacac aaatccttgg cactggctag 120  
 tctatgtect ctcaagtgcc tttttgttg t 151

<210> 55  
 <211> 91  
 <212> DNA  
 <213> Homo sapien

<400> 55

acctggcttg tctccgggtg gttcccggcg ccccccaagg tccccagaac ggacactttc 60  
gccctccagt ggatactcga gccaaagtgg t 91

<210> 56  
<211> 133  
<212> DNA  
<213> Homo sapien

<400> 56  
ggcggatgtg cgttggttat atacaaatat gtcattttat gtaagggact tgagtatact 60  
tggatttttg gtatctgtgg gttgggggga cggtcacagga accaataccc catggatacc 120  
aagggacaac tgt 133

<210> 57  
<211> 147  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(147)  
<223> n = A,T,C or G

<400> 57  
actctggaga acctgagccg ctgctccgcc tctgggatga ggtgatgcan gcngtgggcgc 60  
gactggggagc tgagcccttc cctttgcgcc tgcctcagag gattgttgcc gacntgcana 120  
tctcantggg ctggatncat gcagggt 147

<210> 58  
<211> 198  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(198)  
<223> n = A,T,C or G

<400> 58  
acagggatat aggtttnaag ttattgtnat tgtaaaatac attgaatttt ctgtatactc 60  
tgattacata catttatcct ttaaaaaaga tgtaaatcct aatttttatg ccatctatta 120  
atttaccaat gagttacctt gtaaatgaga agtcatgata gcaactgaatt ttaactagtt 180  
ttgaattota agtttggt 198

<210> 59  
<211> 330  
<212> DNA  
<213> Homo sapien

<400> 59  
acaacaaatg ggttgtgagg aagtcttatac agcaaaactg gtgatggcta ctgaaaagat 60  
ccattgaaaa ttatcattaa tgatttttaa tgacaagtta tcaaaaactc actcaatttt 120  
cacctgtgct agcttgctaa aatgggagtt aactctagag caaatatagt atcttctgaa 180  
tacagtcaat aaatgacaaa gccagggcct acagggtggt tccagacttt ccagaccag 240

cagaaggaat ctattttatac acatggatct ccgtctgtgc tcaaaatacc taatgatatt 300  
 ttctgtcttt attggacttc ttgaagagt 330

<210> 60  
 <211> 175  
 <212> DNA  
 <213> Homo sapien

<400> 60  
 accgtgggtg ccttctacat tcttgacggc tctttcacca acatctggtt ctacttcggc 60  
 gtctgtgggt ccttctctct cactctcctc cagctgggtg tgctcatcga ctttgccgac 120  
 tcttggaacc agcgggtggc gggcaaggcc gaggagtgcg attcccgtgc ctggt 175

<210> 61  
 <211> 154  
 <212> DNA  
 <213> Homo sapien

<400> 61  
 accccacttt tcttctgtg agcagctctg acttctcact gctacatgat gaggggtgagt 60  
 ggttggtgct cttcaacagt atctctccct ttccggatct gctgagccgg acagcagtgc 120  
 tggactgcac agccccgggg ctccacattg ctgt 154

<210> 62  
 <211> 30  
 <212> DNA  
 <213> Homo sapien

<400> 62  
 cgctcgagcc ctatagtgag tcgtattaga 30

<210> 63  
 <211> 89  
 <212> DNA  
 <213> Homo sapien

<400> 63  
 acaagtcatt tcagcaccct ttgctcttca aaactgacca tcttttatat ttaatgcttc 60  
 ctgtatgaat aaaaatgggt atgtcaagt 89

<210> 64  
 <211> 97  
 <212> DNA  
 <213> Homo sapien

<400> 64  
 accggagtaa ctgagtcggg acgctgaatc tgaatccacc aataaataaa ggttctgcag 60  
 aatcagtgc tccaggattg gtccttggat ctgggg 97

<210> 65  
 <211> 377  
 <212> DNA  
 <213> Homo sapien

<400> 65

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<210> 66
<211> 305
<212> DNA
<213> Homo sapien
```

<400> 66

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<210> 67
<211> 385
<212> DNA
<213> Homo sapien
```

<400> 67

```
<210> 68
<211> 73
<212> DNA
<213> Homo sapien
```

<400> 68

```
<210> 69
<211> 536
<212> DNA
<213> Homo sapien
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<220>  
 <221> misc\_feature  
 <222> (1)...(536)  
 <223> n = A,T,C or G

<400> 69  
 actagtccag tgtggtggaa ttccattgtg ttgggggctc tcaccctcct ctccctgcagc 60  
 tccagctttg tgctctgcct ctgaggagac catggcccag catctgagta ccctgctgct 120  
 cctgctggcc accctagctg tggccctggc ctggagcccc aaggaggagg ataggataat 180  
 cccgggtggc atctataacg cagacctcaa tgatgagtgg gtacagcgtg cccttcactt 240  
 cgccatcagc gagtataaca aggccaccaa agatgactac tacagacgtc cgctgcgggt 300  
 actaagagcc aggcaacaga ccgttggggg ggtgaattac ttcttcgacg tagagggtggg 360  
 ccgaaccata tgtaccaagt cccagcccaa cttggacacc tgtgccttcc atgaacagcc 420  
 agaactgcag aagaaacagt tgtgctcttt cgagatctac gaagtccct ggggagaaca 480  
 gaangtccct ggggtgaaac caggtgtcaa gaaatcctan ggatctgttg ccaggc 536

<210> 70  
 <211> 477  
 <212> DNA  
 <213> Homo sapien

<400> 70  
 atgaccoccta acagggggccc tctcagccct cctaattgacc tccggcctag coattgtgatt 60  
 tcaactccac tccataacgc tccctcatact aggcctacta accaacacac taaccatata 120  
 ccaatgatgg cgcgatgtaa cagagaaaag cacataccaa ggccaccaca caccacctgt 180  
 ccaaaaaggc cttegatacg ggataatcct atttattacc tcagaagttt ttttcttcgc 240  
 agggattttt ctgagccttt taccactcca gcctagcccc tcccccccaa ctaggaggggc 300  
 actggccccc aacaggcatc accccgctaa atcccttaga agtccactc ctaaacacat 360  
 ccgtattact cgcattcagga gtatcaatca cctgagctca ccatagtcta atagaaaaca 420  
 accgaaacca aattattcaa agcactgctt attacaattt tactgggtct ctatttt 477

<210> 71  
 <211> 533  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(533)  
 <223> n = A,T,C or G

<400> 71  
 agagctatag gtacagtgtg atctcagctt tgcaaacaca ttttctacat agatagtact 60  
 aggtattaat agatatgtaa agaaagaaat cacaccatta ataatggtaa gattggttta 120  
 tgtgatttta gtggtatttt tggcaccctt atatatgttt tccaaacttt cagcagtgat 180  
 attatttcca taacttaaaa agtgagtttg aaaaagaaaa tctccagcaa gcatctcatt 240  
 taaataaagg tttgtcatct ttaaaaatac agcaatatgt gactttttta aaaagctgtc 300  
 aaatagggtg gacctacta ataattatta gaaatacatt taaaaacatc gagtacctca 360  
 agtcagtttg ccttgaaaaa tatcaaatat aactcttaga gaaatgtaca taaaagaatg 420  
 cttcgtaatt ttggagtang aggttccttc ctcaattttg tattttttaa aagtacatgg 480  
 taaaaaaaaa aattcacaac agtatataag gctgtaaaaa gaagaattct gcc 533

<210> 72



<211> 511  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(511)  
 <223> n = A,T,C or G

<400> 72

tattacggaa	aaacacacca	cataattcaa	ctancaaaga	anactgcttc	agggcgtgta	60
aatgaaagg	cttccaggca	gttatctgat	taaagaacac	taaaagaggg	acaaggctaa	120
aagccgcagg	atgtctacac	tatancaggc	gctatttggg	ttggctggag	gagctgtgga	180
aaacatggan	agattggtgc	tgganatcgc	cgtggctatt	cctcattgtt	attacanagt	240
gaggttctct	gtgtgcccac	tggtttgaaa	accgttctnc	aataatgata	gaatagtaca	300
cacatgagaa	ctgaaatggc	ccaaacccag	aaagaaagcc	caactagatc	ctcagaanac	360
gcttctaggg	acaataaccg	atgaagaaaa	gatggcctcc	ttgtgcccc	gtctgttatg	420
atttctctcc	attgcagcna	naaacccgtt	cttctaagca	aacncagggtg	atgatggcna	480
aaatacaccc	cctcttgaag	naccnggagg	a			511

<210> 73  
 <211> 499  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(499)  
 <223> n = A,T,C or G

<400> 73

cagtgccagc	actggtgcc	gtaccagtac	caataacagt	gccagtgcc	gtgccagcac	60
cagtgggtgg	ttcagtgtg	gtgccagcct	gaccgccact	ctcacatttg	ggctcttcgc	120
tggccttggt	ggagctgggt	ccagcaccag	tggcagctct	ggtgcctgtg	gtttctccta	180
caagtgagat	tttagatatt	gttaatcctg	ccagtctttc	tcttcaagcc	aggggtgcac	240
ctcagaaacc	tactcaacac	agcactctag	gcagccacta	tcaatcaatt	gaagttgaca	300
ctctgcatta	aatctatttg	ccatttctga	aaaaaaaaaa	aaaaaaagg	cgcccgctcg	360
antctagagg	gcccgtttaa	acccgctgat	cagcctcgac	tgtgccttct	anttgccagc	420
catctgttgt	ttgcccctcc	cccgntgcct	tccttgacct	tggaaagtgc	cactcccact	480
gtccttttct	aantaaaa					499

<210> 74  
 <211> 537  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(537)  
 <223> n = A,T,C or G

<400> 74

tttcatagga	gaacacactg	aggagatact	tgaagaattt	ggattcagcc	gcgaagagat	60
ttatcagctt	aactcagata	aatcattga	aagtaataag	gtaaaagcta	gtctctaact	120

```
<210> 75
<211> 467
<212> DNA
<213> Homo sapien
```

<400>	75							
acaat	tgttcaaaag	atgcaaata	tacactactg	ctgcagctca	caaacacctc			60
attac	acgtacctcc	tcctgctcct	caagtagtgt	ggctctat	ttt gccatcatca			120
tgtct	gcttagaaga	acggctttct	gctgcaangg	agagaaatca	taacagacgg			180
caagg	aggccatctt	ttcttcacgc	gttattgtcc	ctagaagcgt	cttctgagga			240
ttggg	ctttctttct	gggtttgggc	catttcantt	ctcatgtgtg	tactattcta			300
attgt	ataacggttt	tcaaaccngt	gggcacncag	agaacctcac	tctgtaataa			360
aggaa	tagccacggt	gatctccagc	accaaattct	tccatgttnt	tccagagctc			420
gccaa	cccaaatagc	cgctgctatn	gtgtagaaca	tccttgn				467

```
<220>
<221> misc feature
<222> (1)...(400)
<223> n = A,T,C or G
```

```
<210> 77
<211> 248
<212> DNA
<213> Homo sapien
```

<400> 77  
ctggagtgcc ttggtgtttc aagccctgc aggaagcaga atgcacottc tgaggcaoct 60

```

ccagctgccc cggcggggga tgcgaggctc ggagcaccct tgcccgggctg tgattgctgc      120
caggcaactgt tcattctcagc ttttctgtcc ctttgctccc ggcaagcgct tctgctgaaa      180
gttcatactct ggagcctgat gtcttaacga ataaaggctc catgctccac ccgaaaaaaaa      240
aaaaaaaaa                                     248

```

```

<210> 78
<211> 201
<212> DNA
<213> Homo sapien

```

```

<400> 78
actagtccag tgtggtggaa ttccattgtg ttgggcccac cacaatggct acctttaaca      60
tcaccagac cccgccctgc ccgtgcccac cgctgctgct aacgacagta tgatgcttac      120
tctgctactc ggaaactatt tttatgtaat taatgtatgc tttcttgitt ataaatgcct      180
gatttaaaaa aaaaaaaaaa a                                     201

```

```

<210> 79
<211> 552
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(552)
<223> n = A,T,C or G

```

```

<400> 79
tccttttgtt aggtttttga gacaacccta gacctaaact gtgtcacaga cttctgaatg      60
tttaggcagt gctagtaatt tcctcgtaat gattctgtta ttactttcct attctttatt      120
cctctttcct ctgaagatta atgaagttga aaattgaggt ggataaatac aaaaaggtag      180
tgtgatagta taagtatcta agtgcagatg aaagtgtggt atatatatcc attcaaaatt      240
atgcaagtta gtaattactc agggtttaact aaattacttt aatatgctgt tgaacctact      300
ctgttccttg gctagaaaaa attataaaaca ggactttgtt agtttgggaa gccaaattga      360
taatattcta tgttctaaaa gttgggctat acataaanta tnaagaaata tggaatttta      420
ttcccaggaa tatggggttc atttatgaat antaccggg anagaagttt tgantnaaac      480
cngtttttgt taatacgtta atatgtcctn aatnaacaag gcntgactta tttccaaaaa      540
aaaaaaaaaa aa                                     552

```

```

<210> 80
<211> 476
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G

```

```

<400> 80
acagggattt gagatgctaa ggccccagag atcgtttgat ccaaccctct tattttcaga      60
ggggaaaatg gggcctagaa gttacagagc atctagctgg tgcgctggca cccctggcct      120
cacacagact cccgagtagc tgggactaca ggcacacagt cactgaagca ggccctgttt      180
gcaattcacg ttgccacctc caacttaaac attcttcata tgtgatgtcc ttagtcacta      240
aggttaaact ttcccacca gaaaaggcaa cttagataaa atcttagagt actttcatac      300

```

```
<210> 81
<211> 232
<212> DNA
<213> Homo sapien
```

<400>	81								
ttttg	tatgcctn	ctgtggngtt	attgttgctg	ccaccttga	ggagcccagt				60
ctgta	tctttctttt	ctgggggato	ttcctggctc	tgccctcca	ttcccagcct				120
cccca	tcttgcactt	ttgctagggt	tggaggcgct	ttcctggtag	ccctcagag				180
ctcaq	cgggaataaq	tcttaggggt	ggggggtgtg	gcagccggc	ct				232

```
<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G
```

```
<210> 83
<211> 494
<212> DNA
<213> Homo sapien
```

<400> 83						
accgaattgg	gaccgctggc	ttataagcga	tcatgtcctc	cagtattacc	tcaacgagca	60
gggagatcgt	gtctatacgc	tgaagaaatt	tgacccgatg	ggacaacaga	cctgctcagc	120
ccatcctgct	cggttctccc	cagatgacaa	atactctcga	caccgaatca	ccatcaagaa	180
acgcttcaag	gtgctcatga	ccagacaaac	gcgcctgtgc	ctctgagggt	ccttaaactg	240

```
<210> 84
<211> 380
<212> DNA
<213> Homo sapien
```

<400>	84						
tagcc	tatggcgtgg	ccacgggangg	gtccttgagg	cacggggacag	tgaattccca		60
cctgc	gccgcgtctt	ctaccgtccc	tacctgcaga	tcttcggggca	gattccccag		120
catgg	acgtggccct	catggagcac	agcaactgct	cgtcggagcc	cggcttcttg		180
ccctc	ctggggccca	ggcgggcacc	tgcgtctccc	agtatgccaa	ctggctggtg		240
gctcc	tcgtcatctt	cctgctcgtg	gccaacatcc	tgctggtcac	ttgctcattg		300
ttcag	ttacacattc	ggcaaagtac	agggcaacag	cnatctctac	tgggaaggcc		360
tnccg	cctcatccgg						380

```
<220>
<221> misc_feature
<222> (1)...(481)
<223> n = A,T,C or G
```

```
<210> 86
<211> 472
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(472)
```

<223> n = A,T,C or G

<400> 86

aacatcttcc	tgtataatgc	tgtgtaatat	cgatccgatn	ttgtctgctg	agaattcatt	60
acttggaana	gcaacttnaa	gcctggacac	tggtattaaa	attcacaata	tgcaacactt	120
taaacagtgt	gtcaatctgc	tcccttactt	tgtcatcacc	agtctgggaa	taagggtatg	180
ccctattcac	acctgttaaa	agggcgctaa	gcatttttga	ttcaacatct	ttttttttga	240
cacaagtccg	aaaaaagcaa	aagtaaacag	ttnttaattt	gttagccaat	tcactttctt	300
catgggacag	agccatttga	tttaaaaagc	aaattgcata	atattgagct	ttgggagctg	360
atatntgagc	ggaagantag	cctttctact	tcaccagaca	caactccttt	catattggga	420
tgtnnacnaa	agttatgtct	cttacagatg	ggatgctttt	gtggcaattc	tg	472

<210> 87

<211> 413

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(413)

<223> n = A,T,C or G

<400> 87

agaaaccagt	atctctnaaa	acaacctctc	ataccttgctg	gacctaat	ttgtgtgcgtg	60
tgtgtgtgctg	cgcatattat	atagacaggc	acatcttttt	tacttttgta	aaagcttatg	120
cctcttttgg	atctatatct	gtgaaagt	taatgatctg	ccataatgct	ttggggacct	180
ttgtcttctg	tgtaaagt	actagagaaa	acacctatnt	tatgagtcaa	tctagttngt	240
tttattcgac	atgaaggaaa	tttccagatn	acaacactna	caaactctcc	cttgactagg	300
ggggacaaaag	aaaagcnaaa	ctgaacatna	gaaacaattn	cctgggtgaga	aattncataa	360
acagaaattg	ggtngtatat	tgaananng	catcattnaa	acgttttttt	ttt	413

<210> 88

<211> 448

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(448)

<223> n = A,T,C or G

<400> 88

cgcagcgggt	cctctctatc	tagctccagc	ctctcgctg	ccccactccc	cgcgtcccgc	60
gtcctagccn	accatggccg	ggccccctgcg	cgccccgctg	ctcctgctgg	ccatcctggc	120
cgtggccctg	gcccgtgagcc	ccgcggcccg	ctccagctcc	ggcaagccgc	cgcgcctgg	180
gggaggccca	tggaacccgc	gtggaagaag	aaaggtgtgcg	gcgtgactg	gactttgcgc	240
tcggcnanta	caacaaaccc	gcaacnactt	ttaccnagcn	cgcgtgcag	gttgtgcgcg	300
cccaancaaa	ttgttactng	gggtaantaa	ttcttggaag	ttgaacctgg	gccaaacnng	360
tttaccagaa	cnagccaat	tngaacaatt	nccccccat	aacagcccct	tttaaaaagg	420
gaancantcc	tgntcttttc	caaatttt				448

<210> 89

<211> 463

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(463)

<223> n = A,T,C or G

<400> 89

gaattttgtg	cactggccac	tgtgatggaa	ccattgggcc	aggatgcttt	gagtttatca	60
gtagtgattc	tgccaaagtt	ggtgttgtaa	catgagtatg	taaaatgtca	aaaaattagc	120
agaggctctag	gtctgcatat	cagcagacag	tttgtccgtg	tattttgtag	ccttgaagtt	180
ctcagtgaca	agttntttct	gatgcgaagt	tctnattcca	gtgttttagt	cctttgcatc	240
tttnatgttn	agacttgccct	ctntnaaatt	gcttttgtnt	tctgcaggta	ctatctgtgg	300
tttaacaaaa	tagaannact	tctctgcttn	gaanatttga	atatcttaca	tctnaaaatn	360
aattctctcc	ccatannaaa	acccangccc	ttggganaat	ttgaaaaang	gntccttcnn	420
aattcnnana	anttcagntn	tcatacaaca	naacngganc	ccc		463

<210> 90

<211> 400

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(400)

<223> n = A,T,C or G

<400> 90

agggattgaa	ggtctnttnt	actgtcggac	tgttcancca	ccaactctac	aagttgctgt	60
cttcactca	ctgtctgtaa	gcntnttaac	ccagactgta	tcttcataaa	tagaacaat	120
tcttcaccag	tcacatcttc	taggaccttt	ttggattcag	ttagtataag	ctcttcact	180
tcctttgtta	agacttcac	tggtaaaagtc	ttaagttttg	tagaaaaggaa	tttaattgct	240
cgttctctaa	caatgtcctc	tccttgaagt	atttggtgga	acaacccacc	tnaagtcctt	300
ttgtgcatcc	attttaaata	tacttaatat	ggcattggtn	cactagggtta	aattctgcaa	360
gagtcactctg	tctgcaaaaag	ttgcgttagt	atatctgcc			400

<210> 91

<211> 480

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(480)

<223> n = A,T,C or G

<400> 91

gagctcggat	ccaataatct	ttgtctgagg	gcagcacaca	tatncagtgc	catggnaact	60
ggtctacccc	acatgggagc	agcatgccgt	agntatataa	ggtcattccc	tgagtcagac	120
atgcctcttt	gactaccgtg	tgccagtgtc	ggtgattctc	acacacctcc	nncgctctt	180
tgtggaaaaa	ctggcacttg	nctggaacta	gcaagacatc	acttacaat	tcacccacga	240
gacacttgaa	aggtgtaaca	aagcgactct	tgcattgctt	tttgtccctc	cggcaccagt	300
tgtcaatact	aaccgcgtgg	tttgccctca	tcacatttgt	gatctgtagc	tctggatata	360
tctoctgaca	gtactgaaga	acttcttctt	ttgtttcaaa	agcaactctt	ggtgcctgtt	420

ngatcagggtt occattttccc agtccgaatg ttcacatggc atatnttact tcccacaaaa 480

<210> 92  
<211> 477  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(477)  
<223> n = A,T,C or G

<400> 92  
atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcggtcact 60  
ggtcccgtg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcctt 120  
cccacgcagg cagcagcggg gccgggtcaat gaactccact cgtggcttgg ggttgacggg 180  
taantgcagg aagaggctga ccacctcgcg gtccaccagg atgcccgact gtgcgggacc 240  
tgcagcgaaa ctcttcgatg gtcattgagcg ggaagogaat gangcccagg gccttgccca 300  
gaaccttccg cctgttctct ggcgtcacct gcagctgctg ccgctnacac tgggcctcgg 360  
accagcggac aaacggcgtt gaacagccgc acctcacgga tgcccantgt gtcgcgctcc 420  
aggaacggcn ccagcgtgtc cagggtcaatg tcggtgaanc ctccgcgggt aatggcg 477

<210> 93  
<211> 377  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(377)  
<223> n = A,T,C or G

<400> 93  
gaacggctgg accttgccctc gcattgtgct gctggcagga ataccttggc aagcagctcc 60  
agtccgagca gccccagacc gctgcgcgcc gaagctaagc ctgcctctgg ccttcccctc 120  
cgctcaatg cagaaccant agtgggagca ctgtgtttag agttaagagt gaacactgtg 180  
tgattttact tgggaatttc ctctgttata tagcttttcc caatgctaata tccaacaaa 240  
caacaacaaa ataacatgtt tgctgtttna gttgtataaa agtangtgat tctgtatnta 300  
aagaaaatat tactgttaca tatactgctt gcaanttctg tattttattgg tncctctggaa 360  
ataaatatat tattaata 377

<210> 94  
<211> 495  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(495)  
<223> n = A,T,C or G

<400> 94  
ccctttgagg ggtaggggtc cagttcccag tggaagaaac aggccaggag aantgcgtgc 60  
cgagctgang cagatttccc acagtgaccc cagagccctg ggctatagtc tctgaccct 120



```

ccaaggaaag accaccttct ggggacatgg gctggagggc aggacctaga ggcaccaagg 180
gaaggcccca ttccggggct gttcccgag gaggaaggga aggggctctg tgtgcccccc 240
acgaggaana ggccctgant cctgggatca nacacccctt cacgtgtatc cccacacaaa 300
tgcaagctca ccaagggtccc ctctcagtc cttccctaca ccctgaacgg nactggccc 360
acacccaccc agancancca cccgccatgg ggaatgtnct caaggaatcg cngggcaacg 420
tggaactctng tcccnaagg gggcagaatc tccaatagan gganngaacc cttgctnana 480
aaaaaaaaana aaaaa 495

```

```

<210> 95
<211> 472
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(472)
<223> n = A,T,C or G

```

```

<400> 95
ggttacttgg ttccattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc 60
cctctggaag ccttgcgcag agcggacttt gtaattgttg gagaataact gctgaatttt 120
tagctgtttt gagttgattc gcaccactgc accacaactc aatatgaaaa ctatttnact 180
tatttattat cttgtgaaaa gtatacaatg aaaattttgt tcatactgta tttatcaagt 240
atgatgaaaa gcaatagata tatattcttt tattatgttn aattatgatt gccattatta 300
atcggaacaa tgtggagtgt atgttctttt cacagtaata tatgcctttt gtaacttcac 360
ttgggttattt tattgtaaat gaattacaaa attcttaatt taagaaaatg gtangttata 420
tttanttcan taatttcttt ccttgtttac gttaattttg aaaagaatgc at 472

```

```

<210> 96
<211> 476
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G

```

```

<400> 96
ctgaagcatt tcttcaaact tntctacttt tgtcattgat acctgtagta agttgacaat 60
gtgggtgaaat ttcaaaaatta tatgtaactt ctactagttt tactttctcc cccaagtctt 120
ttttaactca tgattttttac acacacaatc cagaacttat tatatagcct ctaagtcttt 180
attcttcaca gtagatgatg aaagagtccct ccagtgtcct gngcanaatg ttctagntat 240
agetggatac atacngtggg agttctataa actcatacct cagtgggact naaccaaaat 300
tgtgttagtc tcaattccta ccacactgag ggagcctccc aaatcactat attcttatct 360
gcaggctactc ctccagaaaa acngacaggg caggcttgca tgaaaaagtn acatctgcgt 420
tacaaagtct atcttctctca nangtctgtg aaggaacaat ttaatcttct agcttt 476

```

```

<210> 97
<211> 479
<212> DNA
<213> Homo sapien

```

```

<220>

```

<221> misc\_feature  
 <222> (1)...(479)  
 <223> n = A,T,C or G

<400> 97  
 actctttcta atgctgatat gatcttgagt ataagaatgc atatgtcact agaatggata 60  
 aaataatgct gcaaacttaa tgttcttatg caaaatggaa cgctaataa acacagctta 120  
 caatcgcaaa tcaaaactca caagtgtca tctgtttag atttagtga ataagactta 180  
 gattgtgctc ctccgatat gattgtttct canatcttgg gcaatnttcc ttagtcaa 240  
 caggctacta gaattctgtt attggatatn tgagagcatg aaatttttaa naatacactt 300  
 gtgattatna aattaatcac aaatttcaact tatacctgct atcagcagct agaaaaacat 360  
 ntntttttta natcaaagta ttttgtgttt ggaantgttn aaatgaaatc tgaatgtggg 420  
 ttcnactta ttttttccn gacnactant tntttttta gggncattc tganccatc 479

<210> 98  
 <211> 461  
 <212> DNA  
 <213> Homo sapien

<400> 98  
 agtgacttgt cctccaacaa aacccttga tcaagtttgt ggcactgaca atcagacctta 60  
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 <211> 171  
 <212> DNA  
 <213> Homo sapien

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 <212> DNA  
 <213> Homo sapien

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 aaggctgagc tgacgccgca gaggtcgtgt cacgtccac gaccttgacg ccgtcgggga 180  
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<213> Homo sapien

<400> 101

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<211> 470

<212> DNA

<213> Homo sapien

<400> 102

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<210> 103

<211> 581

<212> DNA

<213> Homo sapien

<400> 103

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<211> 578

<212> DNA

<213> Homo sapien

<400> 104

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<210> 106  
 <211> 473  
 <212> DNA  
 <213> Homo sapien

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<210> 108
<211> 382
<212> PRT
<213> Homo sapien

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<400> 108
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35 40 45
Gly Lys Arg Ser Leu Val Leu Asp Leu Lys Gln Pro Arg Gly Ala Ala
50 55 60
Val Leu Arg Arg Leu Cys Lys Arg Ser Asp Val Leu Leu Glu Pro Phe
65 70 75 80
Arg Arg Gly Val Met Glu Lys Leu Gln Leu Gly Pro Glu Ile Leu Gln
85 90 95
Arg Glu Asn Pro Arg Leu Ile Tyr Ala Arg Leu Ser Gly Phe Gly Gln
100 105 110
Ser Gly Ser Phe Cys Arg Leu Ala Gly His Asp Ile Asn Tyr Leu Ala
115 120 125
Leu Ser Gly Val Leu Ser Lys Ile Gly Arg Ser Gly Glu Asn Pro Tyr
130 135 140
Ala Pro Leu Asn Leu Leu Ala Asp Phe Ala Gly Gly Gly Leu Met Cys
145 150 155 160
Ala Leu Gly Ile Ile Met Ala Leu Phe Asp Arg Thr Arg Thr Asp Lys
165 170 175
Gly Gln Val Ile Asp Ala Asn Met Val Glu Gly Thr Ala Tyr Leu Ser
180 185 190
Ser Phe Leu Trp Lys Thr Gln Lys Ser Ser Leu Trp Glu Ala Pro Arg
195 200 205
Gly Gln Asn Met Leu Asp Gly Gly Ala Pro Phe Tyr Thr Thr Tyr Arg
210 215 220
Thr Ala Asp Gly Glu Phe Met Ala Val Gly Ala Ile Glu Pro Gln Phe
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<210> 109
<211> 1524
<212> DNA
<213> Homo sapien
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&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 110

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<210> 111
<211> 1289
<212> DNA
<213> Homo sapien

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<210> 112
<211> 315
<212> PRT
<213> Homo sapien

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<400> 112
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Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys Asp Val Phe
20          25          30
Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr Gly Val Ala
35          40          45
Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro Ser Ile Leu
50          55          60
Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly Gln Ile Pro
65          70          75          80
Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn Cys Ser Ser

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<400> 113															
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			20					25					30		
Ala	Ala	Gly	Ile	Thr	Tyr	Val	Pro	Pro	Leu	Leu	Leu	Glu	Val	Gly	Val
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			85						90					95	
Leu	Leu	Ser	Leu	Phe	Leu	Ile	Pro	Arg	Ala	Gly	Trp	Leu	Ala	Gly	Leu
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Leu	Cys	Pro	Asp	Pro	Arg	Pro	Leu	Glu	Leu	Ala	Leu	Leu	Ile	Leu	Gly
		115					120				125				
Val	Gly	Leu	Leu	Asp	Phe	Cys	Gly	Gln	Val	Cys	Phe	Thr	Pro	Leu	Glu
	130					135					140				

Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg Gln Ala  
 145 150 155 160  
 Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu Gly Gly Cys Leu Gly Tyr  
 165 170 175  
 Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu  
 180 185 190  
 Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu Leu Thr Leu Ile Phe Leu  
 195 200 205  
 Thr Cys Val Ala Ala Thr Leu Leu Val Ala Glu Glu Ala Ala Leu Gly  
 210 215 220  
 Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala Pro Ser Leu Ser Pro His  
 225 230 235 240  
 Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe Arg Asn Leu Gly Ala Leu  
 245 250 255  
 Leu Pro Arg Leu His Gln Leu Cys Cys Arg Met Pro Arg Thr Leu Arg  
 260 265 270  
 Arg Leu Phe Val Ala Glu Leu Cys Ser Trp Met Ala Leu Met Thr Phe  
 275 280 285  
 Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu Gly Leu Tyr Gln Gly Val  
 290 295 300  
 Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly  
 305 310 315 320  
 Val Arg Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu  
 325 330 335  
 Val Phe Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg  
 340 345 350  
 Ala Val Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala  
 355 360 365  
 Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu  
 370 375 380  
 Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala  
 385 390 395 400  
 Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly  
 405 410 415  
 Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu  
 420 425 430  
 Pro Gly Pro Lys Pro Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala  
 435 440 445  
 Gly Gly Ser Gly Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser  
 450 455 460  
 Ala Cys Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala  
 465 470 475 480  
 Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp  
 485 490 495  
 Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser  
 500 505 510  
 Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala  
 515 520 525  
 Gly Leu Gly Leu Val Ala Ile Tyr Phe Ala Thr Gln Val Val Phe Asp  
 530 535 540  
 Lys Ser Asp Leu Ala Lys Tyr Ser Ala  
 545 550

<211> 241  
 <212> PRT  
 <213> Homo sapien

<400> 114

Met	Gln	Cys	Phe	Ser	Phe	Ile	Lys	Thr	Met	Met	Ile	Leu	Phe	Asn	Leu
1				5					10					15	
Leu	Ile	Phe	Leu	Cys	Gly	Ala	Ala	Leu	Leu	Ala	Val	Gly	Ile	Trp	Val
		20						25					30		
Ser	Ile	Asp	Gly	Ala	Ser	Phe	Leu	Lys	Ile	Phe	Gly	Pro	Leu	Ser	Ser
		35					40					45			
Ser	Ala	Met	Gln	Phe	Val	Asn	Val	Gly	Tyr	Phe	Leu	Ile	Ala	Ala	Gly
	50					55					60				
Val	Val	Val	Phe	Ala	Leu	Gly	Phe	Leu	Gly	Cys	Tyr	Gly	Ala	Lys	Thr
65					70					75					80
Glu	Ser	Lys	Cys	Ala	Leu	Val	Thr	Phe	Phe	Phe	Ile	Leu	Leu	Leu	Ile
				85					90					95	
Phe	Ile	Ala	Glu	Val	Ala	Ala	Ala	Val	Val	Ala	Leu	Val	Tyr	Thr	Thr
			100					105					110		
Met	Ala	Glu	His	Phe	Leu	Thr	Leu	Leu	Val	Val	Pro	Ala	Ile	Lys	Lys
	115						120					125			
Asp	Tyr	Gly	Ser	Gln	Glu	Asp	Phe	Thr	Gln	Val	Trp	Asn	Thr	Thr	Met
	130					135						140			
Lys	Gly	Leu	Lys	Cys	Cys	Gly	Phe	Thr	Asn	Tyr	Thr	Asp	Phe	Glu	Asp
145					150					155					160
Ser	Pro	Tyr	Phe	Lys	Glu	Asn	Ser	Ala	Phe	Pro	Pro	Phe	Cys	Cys	Asn
				165					170					175	
Asp	Asn	Val	Thr	Asn	Thr	Ala	Asn	Glu	Thr	Cys	Thr	Lys	Gln	Lys	Ala
		180						185					190		
His	Asp	Gln	Lys	Val	Glu	Gly	Cys	Phe	Asn	Gln	Leu	Leu	Tyr	Asp	Ile
	195						200					205			
Arg	Thr	Asn	Ala	Val	Thr	Val	Gly	Gly	Val	Ala	Ala	Gly	Ile	Gly	Gly
	210					215					220				
Leu	Glu	Leu	Ala	Ala	Met	Ile	Val	Ser	Met	Tyr	Leu	Tyr	Cys	Asn	Leu
225					230					235					240
Gln															

<210> 115  
 <211> 366  
 <212> DNA  
 <213> Homo sapien

<400> 115

gctctttctc	tccctctctc	tgaatttaaat	tctttcaact	tgcaatttgc	aaggattaca	60
catttcaactg	tgatgtatat	tgtgttgcaa	aaaaaaaaaa	gtgtctttgt	ttaaaattac	120
ttggtttgtg	aatccatctt	gctttttccc	cattggaact	agtcattaac	ccatctctga	180
actggtagaa	aaacatctga	agagctagtc	tatcagcatc	tgacaggtga	attggatggt	240
tctcagaacc	atttcaccca	gacagcctgt	ttctatcctg	tttaataaat	tagtttgggt	300
tctctacatg	cataacaaac	cctgctccaa	tctgtcacat	aaaagtctgt	gacttgaagt	360
ttagtc						366

<210> 116  
 <211> 282

<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(282)  
<223> n = A,T,C or G

<400> 116  
acaaagatga accatttcct atattatagc aaaattaaaa tctaccogta ttctaattatt 60  
gagaaatgag atnaaacaca atnttataaa gtctacttag agaagatcaa gtgacctcaa 120  
agactttact attttcatat tttaagacac atgattttatc ctatttttagt aacctgggtc 180  
atacgttaaa caaaggataa tgtgaacagc agagaggatt tgttggcaga aaatctatgt 240  
tcaatctnga actatctana tcacagacat ttctatttcct tt 282

<210> 117  
<211> 305  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(305)  
<223> n = A,T,C or G

<400> 117  
acacatgtcg cttcactgcc ttcttagatg cttctgggtca acatanagga acagggacca 60  
tatttatcct ccctcctgaa acaattgcaa aataanacaa aatatatgaa acaattgcaa 120  
aataaggcaa aatatatgaa acaacaggtc tcgagatatt ggaaatcagt caatgaagga 180  
tactgatccc tgatcactgt cctaatgcag gatgtgggaa acagatgagg tcacctctgt 240  
gactgcccc gcttactgcc tgtagagagt ttctangctg cagttcagac agggagaaat 300  
tggggt 305

<210> 118  
<211> 71  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(71)  
<223> n = A,T,C or G

<400> 118  
accaagggtg ntgaatctct gacgtgggga tctctgattc ccgcacaatc tgagtggaaa 60  
aantcctggg t 71

<210> 119  
<211> 212  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature

<222> (1)...(212)  
 <223> n = A,T,C or G

<400> 119  
 actccggttg gtgtcagcag cacgtggcat tgaacatngc aatgtggagc ccaaaccaca 60  
 gaaaatgggg tgaaattggc caactttcta tnaacttatg ttggcaantt tgccaccaac 120  
 agtaagctgg cccttctaataaaaagaaaat tgaaagggtt ctactaanc ggaattaant 180  
 aatggantca aganactccc aggcctcagc gt 212

<210> 120  
 <211> 90  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(90)  
 <223> n = A,T,C or G

<400> 120  
 actcgttgca natcaggggc ccccagagt caccgttgca ggagtccttc tggctttgcc 60  
 ctccgcgggc gcagaacatg ctgggggtgt 90

<210> 121  
 <211> 218  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(218)  
 <223> n = A,T,C or G

<400> 121  
 tgtancgtga anacgacaga naggggtgtc aaaaatggag aanccttgaa gtcattttga 60  
 gaataagatt tgctaaaaga ttgggggcta aaacatggtt attgggagac atttctgaag 120  
 atatncangt aaattangga atgaattcat ggttcttttg ggaattcctt tacgatngcc 180  
 agcatanact tcatgtgggg atancagcta cccttgta 218

<210> 122  
 <211> 171  
 <212> DNA  
 <213> Homo sapien

<400> 122  
 taggggtgta tgcaactgta aggacaaaaa ttgagactca actggcttaa ccaataaagg 60  
 catttggttag ctcatggaac aggaagtcgg atggtggggc atcttcagtg ctgcatgagt 120  
 caccaccccg gcgggggtcat ctgtgccaca ggtccctgtt gacagtgcgg t 171

<210> 123  
 <211> 76  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(76)  
 <223> n = A,T,C or G

<400> 123  
 tgtagcgtga agacnacaga atgggtgtgtg ctgtgctatc caggaacaca tttattatca 60  
 ttatcaanta ttgtgt 76

<210> 124  
 <211> 131  
 <212> DNA  
 <213> Homo sapien

<400> 124  
 acctttcccc aaggccaatg tctgtgtgct taactggccg gctgcaggac agctgcaatt 60  
 caatgtgctg ggatcatatgg aggggaggag actctaaaat agccaatttt attctcttgg 120  
 ttaagatttg t 131

<210> 125  
 <211> 432  
 <212> DNA  
 <213> Homo sapien

<400> 125  
 actttatcta ctggctatga aatagatggt ggaaaattgc gttaccaact ataccactgg 60  
 cttgaaaaag aggtgatagc tcttcagagg acttgtgact tttgctcaga tgctgaagaa 120  
 ctacagtctg catttggcag aaatgaagat gaatttggat taaatgagga tgctgaagat 180  
 ttgcctcacc aaacaaaagt gaaacaactg agagaaaatt ttcaggaaaa aagacagtgg 240  
 ctcttgaagt atcagtcact tttgagaatg tttcttagtt actgcatact tcatggatcc 300  
 catggtgggg gtcttgcac tgtaagaatg gaattgattt tgcttttgca agaattctcag 360  
 caggaaacat cagaaccact attttctagc cctctgtcag agcaaacctc agtgcctctc 420  
 ctctttgctt gt 432

<210> 126  
 <211> 112  
 <212> DNA  
 <213> Homo sapien

<400> 126  
 acacaacttg aatagtaaaa tagaaactga gctgaaattt ctaattcact ttctaaccat 60  
 agtaagaatg atatttcccc ccagggatca ccaaatttt ataaaaattt gt 112

<210> 127  
 <211> 54  
 <212> DNA  
 <213> Homo sapien

<400> 127  
 accacgaaac cacaacaag atggaagcat caatccactt gccaaagcaca gcag 54

<210> 128  
 <211> 323  
 <212> DNA

<213> Homo sapien

<400> 128

acctcattag taattgtttt gttgtttcat ttttttctaa tgtctcccct ctaccagctc	60
acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca	120
ttctctctga agtctaggtt acccattttg gggaccatt ataggcaata aacacagttc	180
ccaaagcatt tggacagttt cttgtttgtg tttagaatgg ttttcctttt tcttagcctt	240
ttcctgcaaa aggetcactc agtcccttgc ttgctcagtg gactgggctc cccagggcct	300
aggetgcctt cttttccatg tcc	323

<210> 129

<211> 192

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(192)

<223> n = A,T,C or G

<400> 129

acatacatgt gtgtatatatt ttaaatatca cttttgtatc actctgactt tttagcatac	60
tgaaaacaca ctaacataat ttntgtgaac catgatcaga tacaacccaa atcattcattc	120
tagcacattc atctgtgata naaagatagg tgagtttcat ttccttcacg ttggccaatg	180
gataaacaaa gt	192

<210> 130

<211> 362

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(362)

<223> n = A,T,C or G

<400> 130

ccctttttta tggaatgagt agactgtatg tttgaanatt tanccacaac ctctttgaca	60
tataatgacg caacaaaaag gtgctgttta gtcctatggg tcagtttatg cccctgacaa	120
gtttccattg tgttttgccg atcttctggc taatcgtggg atcctccatg ttattagtaa	180
ttctgtattc cattttgtta acgcctggta gatgtaacct gctangaggc taactttata	240
cttattttaa agctcttatt ttgtgggtcat taaaatggca atttatgtgc agcactttat	300
tgcagcagga agcacgtgtg ggttggttgt aaagctcttt gctaattctta aaaagtaatg	360
gg	362

<210> 131

<211> 332

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(332)

<223> n = A,T,C or G

ctttttgaaa	gatcgtgtcc	actcctgtgg	acatcttggt	ttaatggagt	ttcccatgca	60
gtangactgg	tatggttgca	gctgtccaga	taaaaacatt	tgaagagctc	caaaatgaga	120
gttctcccag	gttcgccctg	ctgctccaag	tctcagcagc	agcctctttt	aggaggcatc	180
ttctgaacta	gattaaggca	gcttgtaaat	ctgatgtgat	ttggtttatt	atccaactaa	240
cttccatctg	ttatcatctg	agaaaagccc	gactcccan	gacnggtacg	gattgtgggc	300
atanaaggat	tgggtgaaqc	tggcatttqg	gt			332

<213> Homo sapien

<223> n = A, T, C or G

acttttgcca	ttttgtatat	ataaacaatc	ttgggacatt	ctcctgaaaa	ctaggtgtcc	60
agtggctaag	agaactcgat	ttcaagcaat	tctgaaagga	aaaccagcat	gacacagaat	120
ctcaaattcc	caaacagggg	ctctgtggga	aaaatgaggg	aggaccttg	tatctcgggt	180
tttagcaagt	taaaatgaan	atgacaggaa	aggcttattt	atcaacaaaag	agaagagttg	240
ggatgcttct	aaaaaaaact	ttggtagaga	aaataggaat	gctnaatcct	agggaagcct	300
gtaacatact	acaatttggtc	ca				322

<213> Homo sapien

<223> n = A, T, C or G

acaagccttc	acaagtttaa	ctaaattggg	attaatcttt	ctgtanttat	ctgcataatt	60
cttgtttttc	tttccatctg	gctcctgggt	tgacaatttg	tggaaacaac	tctattgcta	120
ctattttaaa	aaaatcaca	atctttccct	ttaagcatag	ttnaattcaa	actattcctg	180
ctattctctg	tttgtcaaag	aatttatatt	tttcaaaata	tgtntatttg	tttgatgggt	240
cccacgaaac	actaataaaa	accacagaqa	ccaqcctg			278

<213> Homo sapien

<223> n = A, T, C or G



<400> 137  
actggtgtgg tnggggggtga tgctgggtggt anaagttgan gtgacttcac gatggtgtgt 60

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<210> 138
<211> 338
<212> DNA
<213> Homo sapien
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<400>	138							
ctgga	atgccacatt	cacaacagaa	tcatagggtct	gtgaaaaacat	taatggctcc			60
ttctc	cagtaagaat	cagggacttg	aatggaaac	gttaacagcc	acatgcccaa			120
ggcag	tctcccatgc	cttcacagt	gaaagggctt	gagaaaaatc	acatccaatg			180
cgttt	ccagcccacac	caaaaaggtgc	ttgggggtgga	gggctggggg	catananggt			240
ctcag	gaagcctcaa	gttcattca	gctttgccac	tgtacattcc	ccatntttaa			300
ctgat	gccttttttt	tttttttttg	taaaattc					338

<400>	139						
ctcttg	gtttttggca	tctggtttgc	ctatagccga	ggccactttg	acagaacaaa		60
ggact	tcgagtaaga	aggtgattta	cagccagcct	agtgcccgaa	gtgaaggaga		120
aacag	acctcgtcct	tcctgggtgtg	agcctggctg	gctcaccgcc	tatcatctgc		180
cctta	ctcaggtgct	accggactct	ggccccgat	gtctgtagtt	tcacaggatg		240
cttgt	cttctacacc	ccacagggcc	ccctacttct	tcggatgtgt	ttttaataat		300
ctatg	tgccccatcc	tccttcatgc	cctccctccc	tttctacca	ctgctgagtg		360
gaact	tgttttaaagt	gt					382

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<220>  
<221> misc_feature  
<222> (1)...(200)  
<223> n = A,T,C or G
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<210>	141
<211>	335
<212>	DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(335)

<223> n = A,T,C or G

<400> 141

actttat	tttt	caaaacactc	atatgttgca	aaaaacacat	agaaaaataa	agtttggtgg	60
gggtgctgac	taaacttcaa	gtcacagact	tttatgtgac	agattggagc	agggtttgtt		120
atgcatgtag	agaacccaaa	ctaattttatt	aaacaggata	gaaacaggct	gtctgggtga		180
aatggttctg	agaaccatcc	aattcacctg	tcagatgctg	atanactagc	tcttcagatg		240
tttttctacc	agttcagaga	tnggttaatg	actantttcca	atggggaaaa	agcaagatgg		300
attcaca	aac	caagtaattt	taaacaaaga	cactt			335

<210> 142

<211> 459

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(459)

<223> n = A,T,C or G

<400> 142

accagggttaa	tattgccaca	tatatccttt	ccaattgcgg	gctaaacaga	cgtgtattta	60
gggttggtta	aagacaaccc	agcttaatat	caagagaaat	tgtgaccttt	catggagtat	120
ctgatggaga	aaacactgag	ttttgacaaa	tcttatttta	ttcagatagc	agtctgatca	180
cacatggtcc	aacaacactc	aaataataaa	tcaaataatna	tcagatgtta	aagattggtc	240
ttcaaacatc	atagccaatg	atgccccgct	tgcctataat	ctctccgaca	taaaaccaca	300
tcaacacctc	agtggccacc	aaaccattca	gcacagcttc	cttaactgtg	agctgtttga	360
agctaccagt	ctgagcacta	ttgactatnt	ttttcangct	ctgaatagct	ctaggggatct	420
cagcangggg	gggaggaacc	agctcaacct	tggcgtant			459

<210> 143

<211> 140

<212> DNA

<213> Homo sapien

<400> 143

acatttcctt	ccaccaagtc	aggactcctg	gcttctgtgg	gagttcttat	cacctgaggg	60
aaatccaaac	agtctctcct	agaaaggaat	agtgtcacca	acccccacca	tctccctgag	120
accatccgac	tccctgtgt					140

<210> 144

<211> 164

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(164)

<223> n = A,T,C or G

<400> 144  
 acttcagtaa caacatacaa taacaacatt aagtgtatat tgccatcttt gtcattttct 60  
 atctatacca ctctcccttc tgaaaacaan aatcactanc caatcactta tacaaatttg 120  
 aggcaattaa tccatatttg ttttcaataa ggaaaaaaag atgt 164

<210> 145  
 <211> 303  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(303)  
 <223> n = A,T,C or G

<400> 145  
 acgtagacca tccaactttg tatttgtaat ggcaaacatc cagnagcaat tcttaaacia 60  
 actggagggt atttataccc aattatccca ttcattaaca tgccctcttc ctcaggctat 120  
 gcaggacagc tatcataagt cggcccaggc atccagatac taccatttgt ataaacttca 180  
 gtaggggagt ccatccaagt gacaggtcta atcaaaggag gaaatggaac ataagcccag 240  
 tagtaaaatn ttgcttagct gaaacagcca caaaagactt accgccgtgg tgattaccat 300  
 caa 303

<210> 146  
 <211> 327  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(327)  
 <223> n = A,T,C or G

<400> 146  
 actgcagctc aattagaagt ggtctctgac tttcatcanc ttctccctgg gctccatgac 60  
 actggcctgg agtgactcat tgctctgggt gggttgagaga gctcctttgc caacaggcct 120  
 ccaagtcagg gctgggattt gtttcctttc cacattctag caacaatatg ctggccactt 180  
 cctgaacagg gagggtgagg ggagccagca tggaacaagc tgccactttc taaagtagcc 240  
 agacttgccc ctgggcctgt cacacctact gatgaccttc tgtgcctgca ggatggaatg 300  
 taggggtgag ctgtgtgact ctatggt 327

<210> 147  
 <211> 173  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(173)  
 <223> n = A,T,C or G

<400> 147  
 acattgtttt tttagataa agcattgana gagctctcct taacgtgaca caatggaagg 60

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actggaacac ataccacat cttgttctg agggataatt ttctgataaa gtcttgctgt 120
atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gtt 173

```

```

<210> 148
<211> 477
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(477)
<223> n = A,T,C or G

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<400> 148
acaaccactt tatctcatcg aatttttaac ccaaactcac tcaactgtgcc tttctatcct 60
atgggatata ttatttgatg ctccatttca tcacacatat atgaataata cactcatact 120
gccctactac ctgctgcaat aatcacattc ccttcctgtc ctgaccctga agccattggg 180
gtggtectag tggccatcag tccangcctg caccttgagc ccttgagctc cattgctcac 240
nccanccac ctcaccgacc ccatectctt acacagctac ctcccttgctc tctaaccoca 300
tagattatnt ccaaattcag tcaattaagt tactattaac actctaccog acatgtccag 360
caccactggg aagccttctc cagccaacac acacacacac acacncacac acacacatat 420
ccaggcacag gctacctcat cttcacaatc acccctttaa ttaccatgct atgggtgg 477

```

```

<210> 149
<211> 207
<212> DNA
<213> Homo sapien

```

```

<400> 149
acagttgtat tataatatca agaaataaac ttgcaatgag agcatttaag agggaagaac 60
taacgtatnt tagagagcca aggaagggtt ctgtggggag tgggatgtaa ggtggggcct 120
gatgataaat aagagtcagc caggtaagtg ggtggtgtgg tatgggcaca gtgaagaaca 180
tttcaggcag agggaacagc agtgaaa 207

```

```

<210> 150
<211> 111
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(111)
<223> n = A,T,C or G

```

```

<400> 150
accttgatnt cattgctgct ctgatggaaa cccaactatc taatttagct aaaacatggg 60
cacttaaatg tggtcagtgt ttggacttgt taactantgg catctttggg t 111

```

```

<210> 151
<211> 196
<212> DNA
<213> Homo sapien

```

```

<400> 151

```

```
<210> 152
<211> 132
<212> DNA
<213> Homo sapien
```

```
<210> 153
<211> 285
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G
```

```
<210> 154
<211> 333
<212> DNA
<213> Homo sapien
```

```
<210> 155
<211> 308
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(308)
<223> n = A,T,C or G
```

&lt;400&gt; 155

actggaaata ataaaaccca catcacagtg ttgtgtcaaa gatcatcagg gcatggatgg	60
gaaagtgcct tgggaactgt aaagtgccta acacatgac gatgattttt gttataatat	120
ttgaatcacg gtgcatacaa actctctctgc ctgctcctcc tgggccccag cccagcccc	180
atcacagctc actgctctgt tcatccaggc ccagcatgta gtggctgatt cttcttggct	240
gcttttagcc tccanaagtt tctctgaagc caaccaaacc tctangtgta aggcattgctg	300
gccctggg	308

&lt;210&gt; 156

&lt;211&gt; 295

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 156

accttgctcg gtgcttggaa catattagga actcaaaata tgagatgata acagtgccta	60
ttattgatta ctgagagaac tgttagacat ttagttgaag attttctaca caggaactga	120
gaataggaga ttatgtttgg cctcatatt ctctcctatc ctcttgcct cattctatgt	180
ctaataatatt ctcaatcaaa taaggttagc ataatcagga aatcgaccaa ataccaatat	240
aaaaccagat gtctatcctt aagattttca aatagaaaac aaattaacag actat	295

&lt;210&gt; 157

&lt;211&gt; 126

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 157

acaagtttaa atagtgtgt cactgtgcat gtgctgaaat gtgaaatcca ccacatttct	60
gaagagcaaa acaaattctg tcatgtaatc tctatcttgg gtcgtgggta tatctgtccc	120
cttagt	126

&lt;210&gt; 158

&lt;211&gt; 442

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(442)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 158

accactggg cttggaaaca cccatcctta atacgatgat ttttctgtcg tgtgaaaatg	60
aanccagcag gctgccccta gtcagtcctt ccttccagag aaaaagagat ttgagaaagt	120
gcctgggtaa ttcaccatta atttctctcc ccaaactctc tgagtcttcc cttaatattt	180
ctggtgggtc tgaccaaagc aggtcatggg ttgttgagca tttgggatcc cagtgaagta	240
natgtttgta gccttgcata cttagccctt cccacgcaca aacggagtgg cagagtggg	300
ccaaccctgt tttcccagtc cacgtagaca gattcacagt gcggaattct ggaagctgga	360
nacagacggg ctctttgcag agcgggact ctgagangga catgagggcc tctgcctctg	420
tggtcattct ctgatgtcct gt	442

&lt;210&gt; 159

&lt;211&gt; 498

&lt;212&gt; DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(498)

<223> n = A,T,C or G

<400> 159

acttccaggt	aacgttggtg	tttccgttga	gcctgaactg	atgggtgacg	ttgtaggttc	60
tccaacaaga	actgaggttg	cagagcgggt	agggaagagt	gctgttccag	ttgcacctgg	120
gctgctgtgg	actgttggtg	attcctcact	acggcccaag	gttgtggaac	tggcanaaag	180
gtgtgttggt	gganttgagc	tcgggcgggt	gtggtaggtt	gtgggtcttt	caacaggggc	240
tgctgtggtg	cggggangtg	aangtggttg	gtcacttgag	cttggccagc	tctggaaaagt	300
antanattct	tcctgaaggc	cagcgcttgt	ggagctggca	ngggtcantg	ttgtgtgtaa	360
cgaaccagtg	ctgctgtggg	tgggtgtana	tcctccacaa	agcctgaagt	tatggtgtcn	420
tcaggtaana	atgtggtttc	agtgtccctg	ggengctgtg	gaaggttgta	nattgtcacc	480
aaggaataa	gctgtggt					498

<210> 160

<211> 380

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(380)

<223> n = A,T,C or G

<400> 160

acctgcatcc	agcttccctg	ccaaactcac	aaggagacat	caacctctag	acagggaaac	60
agcttcagga	tacttccagg	agacagagcc	accagcagca	aaacaaatat	tcccatgect	120
ggagcatggc	atagaggaag	ctganaaatg	tggggtctga	ggaagccatt	tgagtctggc	180
cactagacat	ctcatcagcc	acttgtgtga	agagatgccc	catgacccca	gatgcctctc	240
ccacccttac	ctccatctca	cacacttgag	ctttccactc	tgtataattc	taacatcctg	300
gagaaaaatg	gcagtttgac	cgaacctgtt	cacaacggta	gaggctgatt	tctaacgaaa	360
cttgtagaat	gaagcctgga					380

<210> 161

<211> 114

<212> DNA

<213> Homo sapien

<400> 161

actccacatc	ccctctgagc	aggcggttgt	cgttcaaggt	gtatttggcc	ttgcctgtca	60
cactgtccac	tggtccctta	tccacttggt	gcttaatccc	tcgaaagagc	atgt	114

<210> 162

<211> 177

<212> DNA

<213> Homo sapien

<400> 162

actttctgaa	tcgaatcaaa	tgatacttag	tgtagtttta	atatcctcat	atatatcaaa	60
gttttactac	tctgataatt	ttgtaaaacca	ggtaaccaga	acatccagtc	atacagcttt	120



tggtgatata taacttggca ataaccocagt ctggtgatac ataaaactac tcactgt 177

<210> 163  
 <211> 137  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(137)  
 <223> n = A,T,C or G

<400> 163  
 catttataca gacaggcgtg aagacattca cgacaaaaac gcgaaattct atcccgtgac 60  
 canagaaggc agctacggct actcctacat cctggcgtgg gtggccttcg cctgcacctt 120  
 catcagcggc atgatgt 137

<210> 164  
 <211> 469  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(469)  
 <223> n = A,T,C or G

<400> 164  
 cttatcacaa tgaatgttct cctgggcagc gttgtgatct ttgccacctt cgtgacttta 60  
 tgcaatgcat catgctattt catacctaat gagggagttc caggagattc aaccaggaaa 120  
 tgcatggatc tcaaaggaaa caaacaccca ataaactcgg agtggcagac tgacaactgt 180  
 gagacatgca cttgctacga aacagaaatt tcatgttgca ccttgtttc tacacctgtg 240  
 ggttatgaca aagacaactg ccaaagaatc ttcaagaagg aggactgcaa gtatatcgtg 300  
 gtggagaaga aggacccaaa aaagacctgt tctgtcagtg aatggataat ctaatgtgct 360  
 tctagtaggc acagggtcc caggccaggc ctcattctcc tctggcctct aatagtcaat 420  
 gattgtgtag ccatgcctat cagtaaaaag atntttgagc aaacacttt 469

<210> 165  
 <211> 195  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(195)  
 <223> n = A,T,C or G

<400> 165  
 acagtttttt atanatatcg acattgcogg cacttgtgtt cagtttcata aagctgggtg 60  
 atccgtgtc atccactatt ccttggetag agtaaaaatt attcttatag cccatgtccc 120  
 tgcaggccgc ccgccgtag ttctcgttcc agtcgtcttg gcacacaggg tgccaggact 180  
 tctctgaga tgagt 195

<210> 166

```
<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G
```

```
<210> 167
<211> 247
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc feature
<222> (1)...(247)
<223> n = A,T,C or G
```

```
<210> 168
<211> 273
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(273)
<223> n = A,T,C or G
```

$\langle 210 \rangle$	169
$\langle 211 \rangle$	431

ggcagccaaa	tcataaacgg	cgaggactgc	agcccgcact	cgcagccctg	gcaggcgcca	60
ctggtcatgg	aaaacgaatt	gttctgctcg	ggcgctctgg	tgcattccga	gtgggtgctg	120
tcagccgcac	actgtttcca	gaagtgagtg	cagagctcct	acaccatcgg	gctgggcttg	180
cacagtcttg	aggccgacca	agagccaggg	agccagatgg	tggaggccag	cctctccgta	240
cggcaccacg	agtacaacag	acccttgcct	gctaacgacc	tcattgctcat	caagttggac	300
gaatccgtgt	ccgagctcga	caccattccg	agcatcagca	ttgcttcgca	gtgccctacc	360
cgggggaact	cttgctctgt	ttctggctgg	ggctgctggg	cgaacggcag	aatgcctacc	420
gtgctgcaqt	gcgtgaacgt	gtcgtggttg	tctgaggagc	tctgcagtaa	gctctatgac	480

```
<210> 172
<211> 159
<212> PRT
<213> Homo sapien

<220>
<221> VARIANT
<222> (1)...(159)
<223> Xaa = Any Amino Acid
```

```
<210> 173
<211> 1265
<212> DNA
<213> Homo sapien

<220>
<221> misc_featur
<222> (1)...(1265
```

<223> n = A,T,C or G

<400> 173

```

ggcagcccg c actcgagcc ctggcaggcg gcactgggtca tggaaaacga attgtttctgc      60
tcggggcgcc tgggtgcatcc gcagtgggtg ctgtcagccg cacactgttt ccagaactcc      120
tacaccatcg ggctgggcct gcacagtctt gagggccgacc aagagccagg gagccagatg      180
gtggaggcca gcctctccgt acggcaccca gagtacaaca gacccttgct cgctaacgac      240
ctcatgctca tcaagttgga cgaatccgtg tccgagtctg acaccatccg gagcatcagc      300
attgcttctc agtgccctac cgcggggaac tcttgccctg tttctggctg gggctctgctg      360
gcgaacgggt agctcacggg tgtgtgtctg cctctctcaa ggaggtcctc tgcccagtcg      420
cgggggctga cccagagctc tgcgtcccag gcagaatgcc taccgtgctg cagtgcgtga      480
acgtgtcggg ggtgtctgag gaggtctgca gtaagetcta tgaccgctg taccacccca      540
gcatgttctg cgcgggcgga gggcaagacc agaaggactc ctgcaacggg gactctgggg      600
ggccccgat ctgcaacggg tacttgagg gccttgtgtc tttcgaaaa gccccgtgtg      660
gccaaagttg cgtgccaggg gtctacacca acctctgcaa attcactgag tggatagaga      720
aaaccgtcca ggccagttaa ctctggggac tgggaaccca tgaaattgac ccccaaatac      780
atctgcgga aggaattcag gaatatctgt tcccagcccc tctctcctca ggcccaggag      840
tccaggcccc cagccccctc tccctcaaac caagggtaca gatccccagc cctcctccc      900
tcagaccag gagtccagag ccccagccc ctctcctc agaccagga gtccagcccc      960
tctcctca tcagccaggag tccagacccc ccagcccctc ctccctcaga cccaggggtt    1020
gaggccccca accctcctc cttcagagtc agagggtccaa gcccccaacc cctcgttccc    1080
cagaccacga ggtinnaggtc ccagcccctc tctcctcaga cccagnngtc caatgccacc    1140
tagattttcc ctgnacacag tgcccccttg tggngangttg acccaacctt accagttggg    1200
ttttcatttt tngtcccttt cccctagatc cagaaataaa gtttaagaga nngcaaaaaa    1260
aaaaa                                           1265

```

<210> 174

<211> 1459

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(1459)

<223> n = A,T,C or G

<400> 174

```

ggtcagccgc aactgtttc cagaagtgag tgcagagctc ctacaccatc gggctggggc      60
tgcacagtct tgaggccgac caagagccag ggagccagat ggtggaggcc agcctctccg      120
tacggcaccc agagtacaac agacccttgc tcgctaacga cctcatgctc atcaagttgg      180
acgaatccgt gtccgagtct gacaccatcc ggagcatcag cattgcttcg cagtgcctta      240
ccgcggggaa ctcttgctc gtttctggct ggggtctgct ggcgaacggg gagctcacgg      300
gtgtgtgtct gccctcttca aggaggtcct ctgcccagtc gcgggggctg acccagagct      360
ctgcgtccca ggcagaatgc ctaccgtgct gcagtgcgtg aacgtgtcgg tgggtgtctga      420
ngaggctctg antaagctct atgaccgct gtaccacccc ancatgttct gcgccggcgg      480
agggcaagac cagaaggact cctgcaacgt gagagagggg aaaggggagg gcaggcgact      540
cagggaaggg tggagaaggg ggagacagag acacacaggg ccgcatggcg agatgcagag      600
atggagagac acacagggag acagtgacaa ctagagagag aaactgagag aaacagagaa      660
ataaacacag gaataaagag aagcaaagga agagagaaac agaaacagac atggggaggc      720
agaaacacac acacatagaa atgcagttga ccttccaaca gcatggggcc tgaggggcgg      780
gacctccacc caatagaaaa tctcttata acttttgact ccccaaaaac ctgactagaa      840
atagcctact gttgacgggg agccttacca ataacataaa tagtcgattt atgcatacgt      900
tttatgcatt catgatatac ctttggttga attttttgat atttctaagc tacacagttc      960
gtctgtgaat ttttttaaat tgttgcaact ctctaaaaat ttttctgatg tgtttattga    1020

```

```

aaaaatccaa gtataagtgg acttgtgcat tcaaaccagg gttgttcaag ggtcaactgt 1080
gtaccagag ggaaacagtg acacagattc atagagggtga aacacgaaga gaaacaggaa 1140
aaatcaagac tctacaaaga ggctgggcag ggtgggtcat gcctgtaatc ccagcacttt 1200
gggaggcgag gcaggcagat cacttgaggt aaggagttca agaccagcct ggccaaaatg 1260
gtgaaatcct gtctgtacta aaaatacaaaa agttagctgg atatggtggc aggcgcctgt 1320
aatcccagct acttgggagg ctgaggcagg agaattgctt gaatatggga ggcagagggt 1380
gaagtgagtt gagatcacac cactatactc cagctggggc aacagagtaa gactctgtct 1440
caaaaaaaaa aaaaaaaaaa 1459

```

```

<210> 175
<211> 1167
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1167)
<223> n = A,T,C or G

```

```

<400> 175
gcgcagccct ggcaggcggc actggtcatg gaaaacgaat tgttctgctc gggcgctctg 60
gtgcatccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg 120
ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggt ggaggccagc 180
ctctccgtac ggcacccaga gtacaacaga ctcttgctcg ctaacgacct catgctcctc 240
aagttggacg aatccgtgtc cgagtctgac accatccgga gcacagcat tgcttcgcag 300
tgccctaccg cggggaactc ttgctcgtg tctggctggg gtctgctggc gaacggcaga 360
atgcctaccg tgctgcactg cgtgaacgtg tccgtgggtg ctgaggangt ctgcagtaag 420
ctctatgacc cgctgtacca cccagcatg ttctgcgccg gcggagggca agaccagaag 480
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 540
gtgtctttcg gaaaagcccc gtgtggccaa cttggcgtgc caggtgtcta caccaacctc 600
tgcaaattca ctgagtggat agagaaaacc gtccagncca gttactctg gggactggga 660
acccatgaaa ttgaccccc aatacatcct gcggaangaa ttcagggaata tctgttccca 720
gcccctcctc cctcaggccc aggagtccag gccccagcc cctcctcctt caaaccaagg 780
gtacagatcc ccagcccctc ctccctcaga cccaggagtc cagaccccc agcccctcnt 840
ccntcagacc caggagtcca gcccctcctc cntcagacgc aggagtccag acccccagc 900
ccntcntccg tcagaccagc ggggtgcagg ccccaacccc tcntccntca gagtcagagg 960
tccaagcccc caacccctcg ttcccagac ccagaggtno aggtcccagc cctcctccc 1020
tcagaccagc cgggtccaat ccacctagan tntccctgta cacagtgcc ccttgtggca 1080
ngttgacca accttaccag ttggttttct attttttctc cttttccctt agatccagaa 1140
ataaagtnta agagaagcgc aaaaaaa 1167

```

```

<210> 176
<211> 205
<212> PRT
<213> Homo sapien

```

```

<220>
<221> VARIANT
<222> (1)...(205)
<223> Xaa = Any Amino Acid

```

```

<400> 176
Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
1 5 10 15

```

Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu  
 20 25 30  
 Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val  
 35 40 45  
 Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Leu Leu Leu  
 50 55 60  
 Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser  
 65 70 75 80  
 Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly  
 85 90 95  
 Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met  
 100 105 110  
 Pro Thr Val Leu His Cys Val Asn Val Ser Val Val Ser Glu Xaa Val  
 115 120 125  
 Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala  
 130 135 140  
 Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly  
 145 150 155 160  
 Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys  
 165 170 175  
 Ala Pro Cys Gly Gln Leu Gly Val Pro Gly Val Tyr Thr Asn Leu Cys  
 180 185 190  
 Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Xaa Ser  
 195 200 205

&lt;210&gt; 177

&lt;211&gt; 1119

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 177

```

gcgcactcgc agccctggca ggcggcactg gtcattggaaa acgaattggt ctgctcgggc      60
gtccttggtgc atccgcagtg ggtgctgtca gccgcacact gttccagaa ctccacacc      120
atcgggctgg gctgcacag tcttgaggcc gaccaagagc caggagcca gatggtggag      180
gccagcctct ccgtacggca cccagagtac aacagaccct tgctcgctaa cgacctcatg      240
ctcatcaagt tggacgaatc cgtgtccgag tctgacacca tccggagcat cagcattgct      300
tcgcagtgcc ctaccgcggg gaactcttgc ctggtttctg gctggggtct gctggcgaac      360
gatgctgtga ttgccatcca gtcccagact gtgggaggct gggagtgtga gaagctttcc      420
caaccctggc aggggtgtac catttcggca atttcagtg caaggacgtc ctgctgcac      480
ctcactgggt gtcactact gtcactgca tcaccggaa cactgtgatc aactagccag      540
caccatagtt ctccgaagtc agactatcat gattactgtg ttgactgtgc tgtctattgt      600
actaaccatg ccgatgttta ggtgaaatta gcgtcacttg gcctcaacca tcttggtatc      660
cagttatcct cactgaattg agatttcctg cttcagtgtc agccattccc acataatttc      720
tgacctacag aggtgaggga tcatatagct cttcaaggat gctggtactc cctcacaaa      780
ttcatttctc ctgttgtagt gaaagggtgc cctctggag cctcccaggg tgggtgtgca      840
ggtcacaatg atgaatgtat gatcgtgttc ccattacca aagcctttaa atccctcatg      900
ctcagtacac cagggcaggt ctgacatttc ttcatttagt gtatgctgtc cattcatgca      960
accacctcag gactcctgga ttctctgcct agttgagctc ctgcatgtg cctccttggg     1020
gagggtgagg agagggccca tggttcaatg ggatctgtgc agttgtaaca cattaggtgc     1080
ttaataaaca gaagctgtga tgttaaaaaa aaaaaaaaaa     1119

```

&lt;210&gt; 178

&lt;211&gt; 164

&lt;212&gt; PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(164)

<223> Xaa = Any Amino Acid

<400> 178

Met	Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln	Trp
1				5				10						15	
Val	Leu	Ser	Ala	Ala	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly	Leu
			20					25					30		
Gly	Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met	Val
		35					40					45			
Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu	Leu
	50					55					60				
Ala	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu	Ser
65					70				75						80
Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala	Gly
			85					90						95	
Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Asp	Ala	Val
			100					105					110		
Ile	Ala	Ile	Gln	Ser	Xaa	Thr	Val	Gly	Gly	Trp	Glu	Cys	Glu	Lys	Leu
		115					120					125			
Ser	Gln	Pro	Trp	Gln	Gly	Cys	Thr	Ile	Ser	Ala	Thr	Ser	Ser	Ala	Arg
	130					135					140				
Thr	Ser	Cys	Cys	Ile	Leu	Thr	Gly	Cys	Ser	Leu	Leu	Leu	Thr	Ala	Ser
145					150					155					160
Pro	Gly	Thr	Leu												

<210> 179

<211> 250

<212> DNA

<213> Homo sapien

<400> 179

ctggagtgcc	ttggtgtttc	aagcccctgc	aggaagcaga	atgcaccttc	tgaggcacct	60
ccagctgccc	ccggccgggg	gatgcgaggc	toggagcacc	cttgcccggc	tgtgattgct	120
gccaggcact	gttcatctca	gcttttctgt	ccctttgctc	ccggcaagcg	cttctgctga	180
aagttcatat	ctggagcctg	atgtcttaac	gaataaaggt	cccattgctcc	acccgaaaaa	240
aaaaaaaaaa						250

<210> 180

<211> 202

<212> DNA

<213> Homo sapien

<400> 180

actagtccag	tgtggtggaa	ttccattgtg	ttgggcccac	cacaatggct	acctttaaca	60
tcaccagac	ccgcccctg	cccgctgccc	acgctgctgc	taacgacagt	atgatgctta	120
ctctgctact	cggaaactat	ttttatgtaa	ttaatgtatg	ctttcttgtt	tataaatgcc	180
tgatttaaaa	aaaaaaaaaa	aa				202



<210> 181  
 <211> 558  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(558)  
 <223> n = A,T,C or G

<400> 181  
 tccytttgkt naggttttkg agacamccck agacctwaan ctgtgtcaca gacttcyngg 60  
 aatgttttagg cagtgcctagt aatttcytcg taatgattct gttattactt tectnattct 120  
 ttattcctct ttcttctgaa gattaatgaa gttgaaaatt gaggtggata aatacaaaaa 180  
 ggtagtgtga tagtataagt atctaagtg cagatgaaagt gtgttatata tatccattca 240  
 aaattatgca agtttagta tctcaggggt taactaaatt actttaatat gctgttgaa 300  
 ctactctgtt ccttggtctag aaaaaattat aaacaggact ttgttagttt gggaagccaa 360  
 attgataata ttctatgttc taaaagttgg gctatacata aattattaag aaatatggaw 420  
 ttttattccc aggaatatgg kgttcatttt atgaatatta cscrggatag awgtwtgagt 480  
 aaaaycagtt ttggtwaata ygtwaatatg tcmtaaataa acaakgcttt gacttatttc 540  
 caaaaaaaaa aaaaaaaaa 558

<210> 182  
 <211> 479  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(479)  
 <223> n = A,T,C or G

<400> 182  
 acagggwttk grggatgcta agsccccrga rwtggtttga tccaacctg gcttwttttc 60  
 agaggggaaa atggggccta gaagttacag mscatytagy tgggtgcgmg gcacccctgg 120  
 cstcacacag astcccgagt agctgggact acaggcacac agtcaactgaa gcaggccctg 180  
 ttwgcaattc acgttgccac ctccaactta aacattcttc atatgtgatg tccttagtca 240  
 ctaagggttaa actttcccac ccagaaaagg caacttagat aaaatcttag agtactttca 300  
 tactmttcta agtcctcttc cagcctcact kkgagtcctm cytggggggt gataggaant 360  
 ntctcttggc tttctcaata aartctctat ycatctcatg ttttaatttg tagcatara 420  
 awtgstgara aaattaaaa gttctggtty mactttaaaa aaaaaaaaa aaaaaaaaa 479

<210> 183  
 <211> 384  
 <212> DNA  
 <213> Homo sapien

<400> 183  
 aggcgggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactggtgcc 60  
 agtaccagta ccaataacag tgccagtgcc agtgccagca ccagtgggtg cttcagtgtc 120  
 ggtgccagcc tgaccgccac tctcacattt gggctcttcg ctggccttgg tggagctggt 180  
 gccagacca gtggcagctc tgggtgcctgt ggtttctcct acaagtgaga ttttagatat 240  
 tggtaatcct gccagtcttt ctcttcaagc cagggtgcat cctcagaaac ctactcaaca 300  
 cagcaactcta ggcagccact atcaatcaat tgaagttgac actctgcatt aratctattt 360

gccatttcaa aaaaaaaaaa aaaa

384

<210> 184  
 <211> 496  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(496)  
 <223> n = A,T,C or G

<400> 184

accgaattgg	gaccgctggc	ttataagcga	tcatgttynt	ccrgtatcac	ctcaacgagc	60
aggagatcg	agtctatacg	ctgaagaaat	ttgacccgat	gggacaacag	acctgctcag	120
cccatcctgc	togggttctcc	ccagatgaca	aatactctsg	acaccgaatc	accatcaaga	180
aacgcttcaa	ggtgctcatg	accagcaac	cgcgcctgt	cctctgaggg	tcccttaaac	240
tgatgtcttt	tctgccacct	gttaccctc	ggagactccg	taaccaaact	cttcggactg	300
tgagccctga	tgcctttttg	ccagccatac	tctttggcat	ccagtctctc	gtggcgattg	360
attatgcttg	tgtgaggcaa	tcatgggtggc	atcacccata	aagggaacac	atttgacttt	420
tttttctcat	attttaaatt	actacmagaw	tattwmagaw	waaatgawtt	gaaaaactst	480
taaaaaaaaa	aaaaaa					496

<210> 185  
 <211> 384  
 <212> DNA  
 <213> Homo sapien

<400> 185

gctggtagcc	tatggcgkkg	cccacggagg	ggctcctgag	gccacggrac	agtgacttcc	60
caagtatcyt	gcgcsogtc	ttctaccgtc	cctacctgca	gatcttcggg	cagattcccc	120
aggaggacat	ggaagtgagg	ctcatggagc	acagcaactg	ytcgctcgag	ccgggcttct	180
gggcacaccc	tcctggggcc	caggcgggca	cctgcgtctc	ccagtatgcc	aactggctgg	240
tggtgctgct	cctcgctcatc	ttcctgctcg	tggccaacat	cctgctggtc	aacttgctca	300
ttgccatgtt	cagttacaca	ttcggcaaa	tacagggcaa	cagcgatctc	tactgggaag	360
gcgcagcgtt	accgcctcat	ccgg				384

<210> 186  
 <211> 577  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(577)  
 <223> n = A,T,C or G

<400> 186

gagttagctc	ctccacaacc	ttgatgaggt	cgtctgcagt	ggcctctcgc	ttcataccgc	60
tnccatcgtc	atactgtagg	tttgccacca	cytcttgcca	tcttggggcg	gcntaatatt	120
ccaggaaact	ctcaatcaag	tcaccgtcga	tgaaacctgt	gggctgggtc	tgtcttccgc	180
tgggtgtgaa	aggatctccc	agaaggagtg	ctcgatcttc	cccacacttt	tgatgacttt	240
attgagtcga	ttctgcatgt	ccagcaggag	gttgtagacc	ctctctgaca	gtgagggtcac	300
cagccctatc	atgccgttga	mcgtgccgaa	garcaccgag	ccttgtgttg	gggkkgaagt	360

```
ctcaccacaga ttctgcatta ccagagagcc gtggcaaaag acattgacaa actcgcccag 420
gtggaaaaaag amcamctcct ggargtgctn gccgctcctc gtcmgttggt ggcagcgctw 480
tccttttgac acacaaacaa gttaaaggca ttttcagccc ccagaaantt gtcacatcc 540
aagatntcgc acagcactna tccagttggg attaaat 577
```

```
<210> 187
<211> 534
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(534)
<223> n = A,T,C or G
```

```
<400> 187
aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgstg agaatycatw 60
actkggaaaa gmaacattaa agcctggaca ctggtattaa aattcacaat atgcaacact 120
ttaaacagtg tgtcaatctg ctcccyynac tttgtcatca ccagtctggg aakaagggtg 180
tgccctattc acacctgtta aaaggcgct aagcattttt gattcaacat cttttttttt 240
gacacaagtc cgaaaaaagc aaaagtaaag agttatyaat ttgttagcca attcactttc 300
ttcatgggac agagccatyt gatttaaaaa gcaaattgca taatattgag ctttygggagc 360
tgatatttga gcggaagagt agcctttcta cttcaccaga cacaactccc tttcatattg 420
ggatgttnac naaagtwatg tctctwacag atgggatgct tttgtggcaa ttctgttctg 480
aggatctccc agtttattta ccacttgca cagaaggcgt tttcttcctc aggc 534
```

```
<210> 188
<211> 761
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G
```

```
<400> 188
agaaaccagt atctctnaaa acaacctctc ataccttggt gacctaatth tgtgtgcgtg 60
tgtgtgtgct cgcataattat atagacaggc acatcttttt tacttttgta aaagcttatg 120
cctcttttgt atctatatct gtgaaagttt taatgatctg ccataatgct ttggggacct 180
ttgtcttctg tgtaaagtgt actagagaaa acacctatnt tatgagtcaa tctagttngt 240
tttattcgac atgaaggaaa tttccagatn acaacactna caaactctcc ctkgackarg 300
ggggacaaa gaaagcaaaa ctgamcataa raaacaatwa cctggtgaga arttgcataa 360
acagaaatwr ggtagtatat tgaarnacag catcattaaa rmgttwtktt wttctccctt 420
gcaaaaaaca tgtacngact tccggttgag taatgccaaag ttgttttttt tatnataaaa 480
cttgcccttc attacatggt tnaaagtggg gtgggtgggc aaaatattga aatgatggaa 540
ctgactgata aagctgtaca aataagcagt gtgcctaaca agcaacacag taatgttgac 600
atgcttaatt cacaaatgct aatttcatta taaatgtttg ctaaaatata ctttgaacta 660
tttttctgtn ttccagagc tgagatntta gattttatgt agtatnaagt gaaaaantac 720
gaaaaataata acattgaaga aaaaananaa aaanaaaaaa a 761
```

```
<210> 189
<211> 482
<212> DNA
```

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(482)

<223> n = A,T,C or G

<400> 189

tttttttttt	tttgccgatn	ctactatfff	attgcaggan	gtgggggtgt	atgcaccgca	60
caccgggggt	atnagaagca	agaaggaagg	agggagggca	cagccccttg	ctgagcaaca	120
aagccgcctg	ctgccttctc	tgtctgtctc	ctggtgcagg	cacatgggga	gaccttcccc	180
aaggcagggg	ccaccagtcc	aggggtggga	atacaggggg	tgggangtgt	gcataagaag	240
tgataggcac	aggccacccg	gtacagaccc	ctcggctcct	gacaggtnga	tttcgaccag	300
gtcattgtgc	cctgccccag	cacagcgtn	atctggaaaa	gacagaatgc	tttccttttc	360
aaatttggct	ngtcatngaa	ngggcanttt	tccaanttng	gctnggtctt	ggtacncttg	420
gttcggccca	gtccnccgtc	caaaaantat	tcaccennct	ccnaattgct	tgcnggnccc	480
cc						482

<210> 190

<211> 471

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(471)

<223> n = A,T,C or G

<400> 190

tttttttttt	ttttaaaaca	gtttttcaca	acaaaattta	ttagaagaat	agtggttttg	60
aaaactctcg	catccagtga	gaactacat	acaccacatt	acagctngga	atgtntctca	120
aatgtctggg	caaatagata	aatggaacca	ttcaatctta	cacatgcacg	aaagaacaag	180
cgtttttgac	atacaatgca	caaaaaaaaa	aggggggggg	gaccacatgg	attaaaattt	240
taagtactca	tcacatacat	taagacacag	ttctagtcca	gtcnaaaatc	agaactgcnt	300
tgaaaaattt	catgtatgca	atccaaccaa	agaacttnat	tggatgatcat	gantnctcta	360
ctacatcnac	cttgatcatt	gccaggaacn	aaaagttnaa	ancacncngt	acaaaaanaa	420
tctgtaattn	anttcaacct	ccgtacngaa	aaatnttnnt	tataactccc	c	471

<210> 191

<211> 402

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(402)

<223> n = A,T,C or G

<400> 191

gagggattga	aggctctgttc	tastgtcggm	ctgttcagcc	accaaactcta	acaagttgct	60
gtcttccact	cactgtctgt	aagcttttta	acccagacwg	tatcttcata	aatagaacaa	120
attcttcacc	agtcacatct	tctaggacct	ttttggattc	agttagtata	agctottcca	180
cttcttttgt	taagacttca	tctggtaaag	tcttaagttt	tgtagaaagg	aattyaattg	240
ctcgttctct	aacaatgtcc	tctccttgaa	gtatttggct	gaacaacca	cctaaagtcc	300

```

ctttgtgcat ccatttttaaa tatacttaat agggcattgk tncactaggt taaattctgc      360
aagagtcatc tgtctgcaaa agttgogtta gtatatctgc ca                          402

```

```

<210> 192
<211> 601
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(601)
<223> n = A,T,C or G

```

```

<400> 192
gagctcggat ccaataatct ttgtctgagg gcagcacaca tatncagtgc catggnaact      60
ggtctacccc acatgggagc agcatgcogt agntatataa ggtcattccc tgagtcagac     120
atgcytyttt gaytaccgtg tgccaagtgc tgggtgattct yaacacacyt ccatcccgyt     180
cttttgtgga aaaactggca cttktctgga actagcarga catcacttac aaattcaccc     240
acgagacact tgaaagggtg aacaaagcga ytcttgcatg gctttttgtc cctccggcac     300
cagttgtcaa tactaaccog ctggtttgcc tccatcacat ttgtgatctg tagctctgga     360
tacatctcct gacagtactg aagaacttct tcttttgttt caaaagcarg tcttggtgcc     420
tgttggatca gggtcccat tccagtcygc aatgttcaca tggcatatth wacttcccac     480
aaaacattgc gatttgaggc tcagcaacag caaatcctgt tccggcattg gctgcaagag     540
cctcgatgta gccggccagc gccaaaggcag gcgcogtgag cccaccagc agcagaagca     600
g                                                                    601

```

```

<210> 193
<211> 608
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(608)
<223> n = A,T,C or G

```

```

<400> 193
atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcggtcact      60
ggtcccgcgtg tagcccccagc gactctccac ctgctggaag cggttgatgc tgcactcytt     120
cccaacgcag gcagmagcgg gsccggtcaa tgaactccay tctggtgctg gggtkgacgg     180
tkaagtgcag gaagagggtg accacctcgc ggtccaccag gatgcccgcac tgtgcgggac     240
ctgcagcgaa actcctcgat ggtcatgagc gggaaagcgaa tgaggcccag ggccttgccc     300
agaaccttcc gcctgtttctc tggcgtcacc tgcagctgct gccgctgaca ctcggcctcg     360
gaccagcgga caaacgggert tgaacagccg cacctcacgg atgccagtg tgtcgcgctc     420
caggammgsc accagcgtgt ccagggtcaat gtcgggtgaag cctccgcgg gtrattggcg     480
ctgcagtggt tttgtcgatg ttctccaggc acaggctggc cagctgcggt tcatcgaaga     540
gtcgcgccctg cgtgagcagc atgaaggcgt tgtcggctcg cagttcttct tcaggaaact     600
cacgcaat                                                                    608

```

```

<210> 194
<211> 392
<212> DNA
<213> Homo sapien

```

<220>  
 <221> misc\_feature  
 <222> (1)...(392)  
 <223> n = A,T,C or G

<400> 194  
 gaacggctgg accttgccctc gcatttgtgt tgcctggcagg gaataccttg gcaagcagyt 60  
 ccagtcagag cagccccaga ccgctgccgc ccgaagctaa gcctgcctct ggccttcccc 120  
 tccgcctcaa tgcagaacca gtagtgggag cactgtgttt agagttaaga gtgaacactg 180  
 tttgatttta cttgggaatt tcctctgtta tatagctttt cccaatgcta atttccaaac 240  
 aacaacaaca aaataacatg tttgcctgtt aagttgtata aaagtaggtg attctgtatt 300  
 taaagaaaat attactgtta catatactgc ttgcaatttc tgtattttatt gktnctstgg 360  
 aaataaatat agttattaaa ggttgtcant cc 392

<210> 195  
 <211> 502  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(502)  
 <223> n = A,T,C or G

<400> 195  
 ccsttkgagg ggtkaggkyc cagttyccga gtggaagaaa caggccagga gaagtgcgtg 60  
 ccgagctgag gcagatgttc ccacagtgc cccagagacc stgggstata gtytctgacc 120  
 cctcncaagg aaagaccacs ttctggggac atgggctgga gggcaggacc tagaggcacc 180  
 aaggggaagg cccattccgg ggstgttccc cgaggaggaa gggaaggggc tctgtgtgcc 240  
 ccccasgagg aagaggccct gagtccctgg atcagacacc ccttcacgtg tatccccaca 300  
 caaatgcaag ctcaccaagg tcccctctca gtccccttcc stacaccctg amcggccact 360  
 gscscacacc caccagagc acgccacccg ccatggggar tgtgctcaag gartcgcnng 420  
 gcarcgtgga catctngtcc cagaaggggg cagaatctcc aatagangga ctgarcmstt 480  
 gctnanaaaa aaaaaaaaaa aa 502

<210> 196  
 <211> 665  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(665)  
 <223> n = A,T,C or G

<400> 196  
 ggttacttgg tttcattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc 60  
 cctctggaag ccttgccgag agcggacttt gtaattgttg gagaataact gctgaatttt 120  
 wagctgtttk gagttgatts gcaccactgc acccacaact tcaatatgaa aacyawttga 180  
 actwatattat tatcttgtga aaagtataac aatgaaaatt ttgttcatac tgtattkatc 240  
 aagtatgatg aaaagcaawa gatatatatt cttttattat gttaaattat gattgccatt 300  
 attaatcggc aaaatgtgga gtgtatgttc ttttcacagt aatatatgcc ttttgtaact 360  
 tcaactgggt attttattgt aaatgartta caaaattctt aatttaagar aatggtagt 420  
 watattttatt tcattaattt ctttcctkgt ttacgtwaat ttgaaaaga wtgcatgatt 480

```

tcttgacaga aatcgatcct gatgctgtgg aagtagtttg acccacatcc ctatgagttt 540
ttcttagaat gtataaaggt tgtagcccat cnaacttcaa agaaaaaaat gaccacatac 600
tttgcaatca ggctgaaatg tggcatgctn ttctaattcc aactttataa actagcaaan 660
aagtg 665

```

```

<210> 197
<211> 492
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(492)
<223> n = A,T,C or G

```

```

<400> 197
tttntttttt ttttttttgc aggaaggatt ccattttattg tggatgcatt ttcacaatat 60
atgtttattg gagcgatcca ttatcagtga aaagtatcaa gtgtttataa natttttagg 120
aaggcagatt cacagaacat gctngtcngc ttgcagtttt acctcgtana gatnacagag 180
aattatagtc naaccagtaa acnaggaatt tacttttcaa aagattaaat ccaaactgaa 240
caaaattcta ccttgaaact tactccatcc aaatatggga ataanagtca gcagtgatac 300
attctcttct gaactttaga ttttctagaa aaatatgtaa tagtgatcag gaagagctct 360
tgttcaaaag tacaacnaag caatgttccc ttaccatagg ctttaattca aactttgatc 420
catttcactc ccacacggg agtcaatgct acctgggaca cttgtatttt gttcatnctg 480
ancntggctt aa 492

```

```

<210> 198
<211> 478
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(478)
<223> n = A,T,C or G

```

```

<400> 198
tttnttttgn atttcantct gtannaanta ttttcattat gtttattana aaaatatnaa 60
tgtntccacn acaaatcatn ttacntnagt aagaggccan ctacattgta caacatacac 120
tgagtatatt ttgaaaagga caagttttaa gtanacncat attgccganc atancacatt 180
tatacatggc ttgattgata tttagcacag canaaactga gtgagttacc agaaaaaaat 240
natatatgtc aatcngatth aagatacaaa acagatccta tggtagatan catcntgtag 300
gagttgtggc tttatgttta ctgaaagtca atgcagttcc tgtacaaaaga gatggccgta 360
agcattctag tacctctact ccatggttaa gaatcgta cttatgttta catatgtnca 420
gggtaagaat tgtgttaagt naanttatgg agaggtccan gagaaaaatt tgatncaa 478

```

```

<210> 199
<211> 482
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(482)

```

<223> n = A,T,C or G

<400> 199

```

agtgacttgt cctccaacaa aaccccttga tcaagtttgt ggcactgaca atcagacctta    60
tgctagttcc tgtcatctat tcgctactaa atgcagactg gaggggacca aaaaggggca    120
tcaactccag ctggattatt ttggagcctg caaatctatt cctacttgta cggactttga    180
agtgattcag tttcctctac ggatgagaga ctggctcaag aatatcctca tgcagcttta    240
tgaagccnac tctgaacacg ctggttatct nagatgagaa ncagagaaat aaagtcnaga    300
aaatttacct ggangaaaag aggcttting ctggggacca tccattgaa ccttctctta    360
anggacttta agaanaaact accacatgtn tgtngtatcc tgggtgccngg ccgtttantg    420
aacntngacn ncacccttnt ggaatanant cttgacngcn tectgaactt gtcctctctgc    480
ga

```

<210> 200

<211> 270

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(270)

<223> n = A,T,C or G

<400> 200

```

cggccgcaag tgcaactcca gctggggcgg tgcggacgaa gattctgcc a gcagttggtc    60
cgactgcgac gacggcggcg ggcacagtcg caggtgcagc gcgggcgcc t ggggtcttgc    120
aaggetgagc tgacgcgcga gaggtcgtgt cagctccac gaccttgac c cgtcgggga    180
cagccggaac agagcccggg gaangcggga ggccctcggg agccctcgg gaaggcgcg    240
ccgagagata cgcaggtgca ggtggccgcc

```

<210> 201

<211> 419

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(419)

<223> n = A,T,C or G

<400> 201

```

tttttttttt ttttggaaac tactgcgagc acagcaggtc agcaacaagt ttattttgca    60
gctagcaagg taacagggtg gggcatgggt acatgttcag gtcaacttcc tttgtcgtgg    120
ttgattgggt tgtctttatg ggggcggggg ggggtagggg aaancgaagc anaantaaca    180
tggagtgggt gcacctccc tgtagaacct ggttacnaaa gcttggggca gttcacctgg    240
tctgtgaccg tcattttctt gacatcaatg ttattagaag tcaggatata ttttagagag    300
tccactgtnt ctggaggagg attagggttt cttgccanaa tccaancaa atccacntga    360
aaaagttgga tgatncangt acngaatacc ganggcatan ttctcatant cggtggccca    419

```

<210> 202

<211> 509

<212> DNA

<213> Homo sapien



<220>  
 <221> misc\_feature  
 <222> (1)...(509)  
 <223> n = A,T,C or G

<400> 202

tttntttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
tggcacttaa	tccattttta	tttcaaaatg	tctacaaant	ttnaatncnc	cattatacng	120
gtnattttnc	aaaatctaaa	nntttattcaa	atnfnagcca	aantccttac	ncaaattnnaa	180
tacnncnaaa	aatcaaaaaat	atacntntct	ttcagcaaac	ttngttacat	aaattaaaaa	240
aatatatacg	gctggtgttt	tcaaagtaca	attatcttaa	cactgcaaac	atnttttnnaa	300
ggaactaaaa	taaaaaaaaa	cactnccgca	aagggttaaag	ggaacaacaa	attcntttta	360
caacancnnc	nattataaaa	atcatacttc	aaatcttagg	ggaatatata	cttcacacng	420
ggatcttaac	ttttactnca	ctttgtttat	ttttttanaa	ccattgtntt	gggcccaaca	480
caatggnaat	nccnccnccn	tggtactagt				509

<210> 203  
 <211> 583  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(583)  
 <223> n = A,T,C or G

<400> 203

tttttttttt	ttttttttga	ccccctcttt	ataaaaaaca	agttaccatt	ttatttttact	60
tacacatatt	tatttttataa	ttggtatttag	atattcaaaa	ggcagctttt	aaaatcaaac	120
taaatggaaa	ctgccttaga	tacataattc	ttaggaatta	gcttaaaatc	tgcctaaagt	180
gaaaatcttc	tctagctctt	ttgactgtaa	atttttgact	cttgtaaaac	atccaaattc	240
atttttcttg	tcttttaaaat	tatctaatct	ttccattttt	tccctattcc	aagtcaattt	300
gcttctctag	cctcatttcc	tagctcttat	ctactattag	taagtggctt	ttttcctaaa	360
agggaaaaca	ggaagagana	atggcacaca	aaacaaacat	tttatattca	tatttctacc	420
tacgttaata	aaatagcatt	ttgtgaagcc	agctcaaaag	aaggcttaga	tccttttatg	480
tccatttttag	tactataaac	atatacnaag	tgccagaatg	caaaagggtt	gtgaacattt	540
attcaaaagc	taatataaga	tattttcacat	actcatcttt	ctg		583

<210> 204  
 <211> 589  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(589)  
 <223> n = A,T,C or G

<400> 204

ttttttttnt	tttttttttt	tttttttctc	ttcttttttt	ttganaatga	ggatcgagtt	60
tttactcttc	tagatagggc	atgaagaaaa	ctcatctttc	cagcttttaa	ataacaatca	120
aatctcttat	gctatatcat	attttaagtt	aaactaatga	gtcactggct	tatcttctcc	180
tgaaggaaat	ctgttcattc	ttctcattca	tatagttata	tcaagtacta	ccttgcatat	240
tgagagggtt	ttcttctcta	tttacacata	tattttccatg	tgaatttgta	tcaaaccctt	300

```

attttcatgc aaactagaaa ataatgtntt cttttgcata agagaagaga acaatatnag 360
cattacaaaa ctgctcaa at tgtttgttaa gnttatccat tataattagt tnggcaggag 420
ctaatacaaaa tcacattttac ngacnagcaa taataaaact gaagtaccag ttaaatatcc 480
aaaataatta aaggaacatt tttagcctgg gtataattag ctaattcact ttacaagcat 540
ttattnagaa tgaattcaca tggtattatt cntagccca acacaatgg 589

```

```

<210> 205
<211> 545
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(545)
<223> n = A,T,C or G

```

```

<400> 205
tttttntttt ttttttcagt aataatcaga acaatatatta tttttatatt taaaattcat 60
agaaaagtgc cttacattta ataaaagttt gtttctcaaa gtgatcagag gaattagata 120
tngtcttgaa caccaatatt aatttgagga aaatacacca aaatacatta agtaaattat 180
ttaagatcat agagcttgta agtgaaaaga taaaatttga cctcagaaac tctgagcatt 240
aaaaatccac tattagcaaa taaattacta tggacttctt gctttaattt tgtgatgaat 300
atgggggtgc actggtaa ac caacacattc tgaaggatac attacttagt gatagattct 360
tatgtacttt gctanatnac gtggatatga gttgacaagt ttctctttct tcaatctttt 420
aaggggngga ngaaatgagg aagaaaagaa aaggattacg catactgttc tttctatngg 480
aaggattaga tatgtttcct ttgccaatat taaaaaata ataatgttta ctactagtga 540
aacc 589

```

```

<210> 206
<211> 487
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(487)
<223> n = A,T,C or G

```

```

<400> 206
tttttttttt ttttttagtc aagtttctna tttttattat aattaaagtc ttggtcattt 60
catttattag ctctgcaact tacatatatta aattaaagaa acgttnttag acaactgtna 120
caatttataa atgtaagggtg ccattattga gtanatatat tctccaaga gtggatgtgt 180
ccttctccc accaactaat gaancagcaa cattagtta attttattag tagatnatac 240
actgctgcaa acgctaattc tcttctccat ccccatgtng atattgtgta tatgtgtgag 300
ttggtnagaa tgcatcanca atctnacaat caacagcaag atgaagctag gcntgggctt 360
tcggtgaaaa tagactgtgt ctgtctgaat caaatgatct gacctatcct cggtggcaag 420
aactcttcga accgcttcct caaaggnggc tgccacattt gtggcntctn ttgcacttgt 480
ttcaaaa 589

```

```

<210> 207
<211> 332
<212> DNA
<213> Homo sapien

```

<220>  
 <221> misc\_feature  
 <222> (1)...(332)  
 <223> n = A,T,C or G

<400> 207  
 tgaattggct aaaagactgc atttttanaa ctagcaactc ttattttcttt cttttaaaaa 60  
 tacatagcat taaatcccaa atcctattta aagacctgac agcttgagaa ggtcactact 120  
 gcattttatag gacctttctgg tggttctgct gttacntttg aantctgaca atccttgana 180  
 atctttgcat gcagaggagg taaaaggat tggattttca cagaggaana acacagcgca 240  
 gaaatgaagg ggccaggctt actgagcttg tccactggag ggctcatggg tgggacatgg 300  
 aaaagaaggc agcctaggcc ctggggagcc ca 332

<210> 208  
 <211> 524  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(524)  
 <223> n = A,T,C or G

<400> 208  
 agggcgctggg gcggagggcg ttactgtttt gtctcagtaa caataaatac aaaaagactg 60  
 gttgtgttcc ggcccatcc aaccacgaag ttgatttctc ttgtgtgcag agtgactgat 120  
 tttaaaggac atggagcttg tcacaatgtc acaatgtcac agtgtgaagg gcacactcac 180  
 tcccgcgtga ttcacattta gcaaccaaca atagctcatg agtccatact tgtaaatact 240  
 tttggcagaa tacttnttga aacttgcaga tgataactaa gatccaagat atttcccaa 300  
 gtaaatagaa gtgggtcata atattaatta cctgttcaca tcagcttcca tttacaagtc 360  
 atgagccag aactgacat caaactaagc ccacttagac tcctcaccac cagtctgtcc 420  
 tgtcatcaga caggaggctg tcaccttgac caaattotca ccagtcaatc atctatccaa 480  
 aaaccattac ctgatccact tccggtaatg caccaccttg gtga 524

<210> 209  
 <211> 159  
 <212> DNA  
 <213> Homo sapien

<400> 209  
 ggggtgaggaa atccagagtt gccatggaga aaattccagt gtcagcatto ttgctccttg 60  
 tggccctctc ctacactctg gccagagata ccacagtcaa acctggagcc aaaaaggaca 120  
 caaaggactc tcgacccaaa ctgccccaga ccctotcca 159

<210> 210  
 <211> 256  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(256)  
 <223> n = A,T,C or G

```

<400> 210
actccctggc agacaaaggc agaggagaga gctctgttag ttctgtgttg ttgaactgcc      60
actgaatttc tttccacttg gactattaca tgccanttga gggactaatg gaaaaacgta      120
tggggagatt ttanccaatt tangtntgta aatggggaga ctggggcagg cgggagagat      180
ttgcagggtg naaatgggan ggctgggttg ttanatgaac aggacatag gaggtaggca      240
ccagatgct aaatca                                         256

```

```

<210> 211
<211> 264
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

```

```

<400> 211
acattgtttt tttagataa agcattgaga gagctctcct taacgtgaca caatggaagg      60
actggaacac ataccacat ctttgttctg agggataatt ttctgataaa gtcttgctgt      120
atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gttaaggaga      180
ggggagatac attcngaaag aggactgaaa gaaatactca agtnggaaaa cagaaaaaga      240
aaaaaaggag caaatgagaa gcct                                         264

```

```

<210> 212
<211> 328
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G

```

```

<400> 212
acccaaaaat ccaatgctga atatttggct tcattattcc canattcttt gattgtcaaa      60
ggattttaatg ttgtctcagc ttgggcactt cagttaggac ctaaggatgc cagccggcag      120
gtttatatat gcagcaacaa tattcaagcg cgacaacagg ttattgaact tgcccgccag      180
ttnaatttca ttcccattga ctggggatcc ttatcatcag ccagagagat tgaaaaatta      240
cccctacnac tctttactct ctgganaggg ccagtgggtg tagctataag cttggccaca      300
tttttttttc ctttattcct ttgtcaga                                         328

```

```

<210> 213
<211> 250
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

```

```

<400> 213
acttatgagc agagcgacat atccnagtgt agactgaata aaactgaatt ctctccagtt      60

```

```

taaagcattg ctcaactgaag ggatagaagt gactgccagg agggaaaagta agccaaggct 120
cattatgcca aagganatat acatttcaat tctccaaact tcttcctcat tccaagagtt 180
ttcaatattt gcatgaacct gctgataanc catgttaana aacaaatata tctctnacct 240
tctcatcgg 250

```

```

<210> 214
<211> 444
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(444)
<223> n = A,T,C or G

```

```

<400> 214
accagaatc caatgctgaa tatttggctt cattattccc agattctttg attgtcaaag 60
gatttaaatgt tgtctcagct tgggcacttc agttaggacc taaggatgcc agccggcagg 120
tttatatatg cagcaacaat attcaagcgc gacaacaggt tattgaactt gcccgccagt 180
tgaatttcat tcccattgac ttgggatcct tatcatcagc canagagatt gaaaatttac 240
ccctacgact ctttactctc tggagagggc cagtgggtgg agctataagc ttggccacat 300
ttttttttcc tttattcctt tgtcagagat gcgattcatc catatgctan aaaccaacag 360
agtgactttt acaaaattcc tataganatt gtgaataaaa ccttacctat agttgccatt 420
actttgctct ccctaataata cctc 444

```

```

<210> 215
<211> 366
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(366)
<223> n = A,T,C or G

```

```

<400> 215
acttatgagc agagcgacat atccaagtgt anactgaata aaactgaatt ctctccagtt 60
taaagcattg ctcaactgaag ggatagaagt gactgccagg agggaaaagta agccaaggct 120
cattatgcca aagganatat acatttcaat tctccaaact tcttcctcat tccaagagtt 180
ttcaatattt gcatgaacct gctgataagc catgttgaga aacaaatata tctctgacct 240
tctcatcggg aagcagagggc tgtaggcaac atggaccata gcgaanaaaa aacttagtaa 300
tccaagctgt tttctacact gtaaccaggt ttccaaccaa ggtggaaatc tcctatactt 360
ggtgcc 366

```

```

<210> 216
<211> 260
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

```

<400> 216  
 ctgtataaac agaactccac tgcangaggg agggccgggc caggagaatc tccgcttgtc 60  
 caagacaggg gcctaaggag ggtctccaca ctgctnntaa gggctnttnc atttttttat 120  
 taataaaaag tnnaaaaggc ctcttctcaa cttttttccc ttnggctgga aaatttaaaa 180  
 atcaaaaatt tctnaagtt ntcaagctat catatatact ntatcctgaa aaagcaacat 240  
 aattcttctt tccctccttt 260

<210> 217  
 <211> 262  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(262)  
 <223> n = A,T,C or G

<400> 217  
 acctacgtgg gtaagtttan aaatgttata atttcaggaa naggaacgca tataattgta 60  
 tcttgcttat aattttctat ttttaataagg aaatagcaaa ttgggggtggg gggaatgtag 120  
 ggcattctac agtttgagca aaatgcaatt aaatgtggaa ggacagcact gaaaaatttt 180  
 atgaataatc tgtatgatta tatgtctcta gagtagattt ataattagcc acttacccta 240  
 atatccttca tgcttgtaaa gt 262

<210> 218  
 <211> 205  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(205)  
 <223> n = A,T,C or G

<400> 218  
 accaaggtgg tgcattaccg gaantggatc aangacacca tegtggccaa cccctgagca 60  
 cccctatcaa ctcccttttg tagtaaaactt ggaaccttgg aaatgaccag gccaagactc 120  
 aggctcccc agttctactg acctttgtcc ttangtntna ngtccagggt tgctaggaaa 180  
 anaaatcagc agacacaggt gtaaa 205

<210> 219  
 <211> 114  
 <212> DNA  
 <213> Homo sapien

<400> 219  
 tactgttttg tctcagtaac aataaatata aaaagactgg ttgtgttccg gccccatcca 60  
 accacgaagt tgatttctct tgtgtgcaga gtgactgatt ttaaaggaca tgga 114

<210> 220  
 <211> 93  
 <212> DNA  
 <213> Homo sapien

<400> 220  
 actagccagc acaaaaggca gggtagcctg aattgctttc tgctctttac atttctttta 60  
 aaataagcat ttagtgctca gtcctactg agt 93

<210> 221  
 <211> 167  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(167)  
 <223> n = A,T,C or G

<400> 221  
 actangtgca ggtgcgcaca aatatttgct gatattccct tcattcttgga ttccatgagg 60  
 tcttttgccc agcctgtggc tctactgtag taagttttctg ctgatgagga gccagnatgc 120  
 cccccactac ctccctgac gctcccccana aatcacccaa cctctgt 167

<210> 222  
 <211> 351  
 <212> DNA  
 <213> Homo sapien

<400> 222  
 agggcgctggt gcggagggcg gtactgacct cattagtagg aggatgcatt ctggcacccc 60  
 gttcttcacc tgtcccccaa tccttaaaag gccatactgc ataaagtcaa caacagataa 120  
 atgtttgctg aattaaagga tggatgaaaa aaattaataa tgaatttttg cataatccaa 180  
 ttttctcttt tatatttcta gaagaagttt ctttgagcct attagatccc gggaatcttt 240  
 taggtgagca tgattagaga gcttgtaggt tgcttttaca tatatctggc atatttgagt 300  
 ctcgtatcaa aacaatagat tggtaaagggt ggtattattg tattgataag t 351

<210> 223  
 <211> 383  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(383)  
 <223> n = A,T,C or G

<400> 223  
 aaaacaaaca aacaaaaaaa acaattcttc attcagaaaa attatcttag ggactgatat 60  
 tggtaattat ggtcaattta atwrttrttkt ggggcatttc cttacattgt cttgacaaga 120  
 ttaaaatgtc tgtgccaaaa ttttgatatt tatttgagga cttcttatca aaagtaatgc 180  
 tgccaaagga agtctaagga attagtagtg ttcccmtoac ttgtttggag tgtgctattc 240  
 taaaagattt tgatttcctg gaatgacaat tatattttta ctttggtggg ggaaanagtt 300  
 ataggaccac agtcttcact tctgatactt gttaaattaat cttttattgc acttgttttg 360  
 accattaagc tatatgttta aaa 383

<210> 224  
 <211> 320  
 <212> DNA

<213> Homo sapien

<400> 224

cccctgaagg	cttcttggtta	gaaaatagta	cagttacaac	caataggaac	aacaaaaaga	60
aaaagtttgt	gacattgtag	tagggagtgt	gtacccttca	ctcccatca	aaaaaaaaat	120
ggatacatgg	ttaaaggata	raagggaat	atcttatcat	atgttctaaa	agagaaggaa	180
gagaaaatac	tactttctcr	aaatggaagc	ccttaaagggt	gctttgatac	tgaaggacac	240
aaatgtggcc	gtccatcctc	ctttaragtt	gcatgacttg	gacacggtaa	ctgttgagct	300
tttaractcm	gcattgtgac					320

<210> 225

<211> 1214

<212> DNA

<213> Homo sapien

<400> 225

gaggactgca	gcccgcactc	gcagccctgg	caggcgccac	tggctcatgga	aaacgaattg	60
ttctgctcgg	gcgtcctggg	gcacccgcag	tgggtgctgt	cagccgcaca	ctgtttccag	120
aactcctaca	ccatcgggct	gggcctgcac	agtcttgagg	ccgaccaaga	gccagggagc	180
cagatggtgg	agggcagcct	ctccgtacgg	cacccagagt	acaacagacc	cttgctcgct	240
aacgacctca	tgctcatcaa	gttggaacgaa	tccgtgtccg	agtctgacac	catccggagc	300
atcagcattg	cttcgcagtg	cctaccgcg	gggaactctt	gcctcgtttc	tggctggggg	360
ctgctggcga	acggcagaat	gcctaccgtg	ctgcagtgcg	tgaacgtgtc	gggtggtgtc	420
gaggaggtct	gcagtaagct	ctatgaccgg	ctgtaccacc	ccagcatgtt	ctgcgcgggc	480
ggagggcaag	accagaagga	ctcctgcaac	ggtgactctg	gggggcccct	gatctgcaac	540
gggtacttgc	agggccttgt	gtcttttcgga	aaagcccctg	gtggccaagt	tggcgtgcca	600
ggtgtctaca	ccaacctctg	caaattcact	gagtggatag	agaaaaccgt	ccaggccagt	660
taactctggg	gactgggaac	ccatgaaatt	gacccccaaa	tacatcctgc	ggaaggaatt	720
caggaatata	tggtcccagc	cctcctccc	tcaggcccag	gagtcagggc	ccccagcccc	780
tcctccctca	aaccaagggt	acagatcccc	agcccctcct	ccctcagacc	caggagtcca	840
gacccccag	cccctcctcc	ctcagaccca	ggagtccagc	ccctcctccc	tcagacccag	900
gagtcagac	ccccagcccc	ctcctccctc	agacccaggg	gtccaggccc	ccaaccctc	960
ctccctcaga	ctcagaggtc	caagccccc	acccctcctt	ccccagaccc	agaggtccag	1020
gtcccagccc	ctcctccctc	agacccagcg	gtccaatgcc	acctagactc	tcctgttaca	1080
cagtcccccc	ttgtggcacg	ttgacccaac	cttaccagtt	ggtttttcat	tttttgtccc	1140
tttcccctag	atccagaaat	aaagtctaag	agaagcgcaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaa					1214

<210> 226

<211> 119

<212> DNA

<213> Homo sapien

<400> 226

accagtatg	tgcagggaga	cggaacccca	tgtgacagcc	cactccacca	gggttcccaa	60
agaacctggc	ccagtcataa	tcattcatcc	tgacagtggc	aataatcacg	ataaccagt	119

<210> 227

<211> 818

<212> DNA

<213> Homo sapien

<400> 227

acaattcata	gggacgacca	atgaggacag	ggaatgaacc	cggctctccc	ccagccctga	60
------------	------------	------------	------------	------------	------------	----



tttttgctac	atatggggtc	ccttttcatt	ctttgcaaaa	acactggggt	ttctgagaac	120
acggacgggt	cttagcacia	tttgtgaaat	ctgtgtaraa	ccgggctttg	caggggagat	180
aattttcctc	ctctggagga	aaggtgggtg	ttgacaggca	gggagacagt	gacaaggcta	240
gagaaagcca	cgctcggcct	tctctgaacc	aggatggaac	ggcagacccc	tgaaaacgaa	300
gcttgtcccc	ttccaatcag	ccacttctga	gaacccccat	ctaacttcct	actggaaaag	360
agggcctcct	caggagcagt	ccaagagttt	tcaaagataa	cgtgacaact	accatctaga	420
ggaaagggtg	caccctcagc	agagaagccg	agagcttaac	tctggtcggt	tccagagaca	480
acctgctggc	tgtcttgagg	tgcgccagc	ctttgagagg	ccactacccc	atgaacttct	540
gccatccact	ggacatgaag	ctgaggacac	tgggcttcaa	caactgagttg	tcatgagagg	600
gacaggctct	gccctcaagc	cggtcgaggg	cagcaaccac	tctcctcccc	tttctcacgc	660
aaagccattc	ccacaaatcc	agaccatacc	atgaagcaac	gagacccaaa	cagtttggct	720
caagaggata	tgaggactgt	ctcagcctgg	ctttgggctg	acaccatgca	cacacacaag	780
gtccacttct	aggttttcag	cctagatggg	agtcgtgt			818

&lt;210&gt; 228

&lt;211&gt; 744

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 228

actggagaca	ctgttgaact	tgatcaagac	ccagaccacc	ccaggtctcc	ttcgtgggat	60
gtcatgacgt	ttgacatacc	tttggaaacg	gcctcctcct	tggaagatgg	aagaccgtgt	120
tctgtggccga	cctggcctct	cctggcctgt	ttcttaagat	gcggagtcac	atttcaatgg	180
taggaaaagt	ggcttcgtaa	aatagaagag	cagtcactgt	ggaactacca	aatggcgaga	240
tgtctgggtg	acattggggg	gctttgggat	aaaagattta	tgagccaact	attctctggc	300
accagattct	aggccagttt	gttccactga	agcttttccc	acagcagtc	acctctgcag	360
gctggcagct	gaatggcttg	ccggtggctc	tgtggcaaga	tcacactgag	atcgatgggt	420
gagaaggcta	ggatgcttgt	ctagtgttct	tagctgtcac	gttggctcct	tccaggttgg	480
ccagacgggtg	ttggccactc	ccttctaaaa	cacagggccc	ctcctgggtg	cagtgacccc	540
ccgtgggtatg	ccttggccca	ttccagcagt	cccagttatg	catttcaagt	ttggggtttg	600
ttcttttctg	taatgttctc	ctgtgtttgc	agctgtcttc	atttctggg	ctaagcagca	660
ttggggagatg	tggaccagag	atccactcct	taagaaccag	tggcgaaaga	cactttcttt	720
cttccactctg	aagtagctgg	tggt				744

&lt;210&gt; 229

&lt;211&gt; 300

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 229

cgagtctggg	ttttgtctat	aaagtttgat	ccctcctttt	ctcatccaaa	tcatgtgaac	60
cattacacat	cgaaataaaa	gaaaggtggc	agacttgccc	aacgccaggc	tgacatgtgc	120
tgcagggttg	ttgtttttta	attattattg	ttagaaacgt	caccacagct	ccctgttaat	180
ttgtatgtga	cagccaactc	tgagaaggtc	ctatttttcc	acctgcagag	gatccagttc	240
cactaggtctc	ctccttgccc	tcacactgga	gtctccgcca	gtgtgggtgc	ccactgacat	300

&lt;210&gt; 230

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 230

cagcagaaca	aatacaata	tgaagagtgc	aaagatctca	taaaatctat	gctgaggaat	60
gagcgacagt	tcaaggagga	gaagcttgca	gagcagctca	agcaagctga	ggagctcagg	120

caatataaag tctctggttca cactcaggaa cgagagotga cccagttaag ggagaagttg 180  
 cggaagggga gagatgcctc cctctcattg aatgagcatc tccaggccct cctcactccg 240  
 gatgaaccgg acaagtccca ggggcaggac ctccaagaaa cagacctcgg ccgcgaccac 300  
 g 301

<210> 231  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 231  
 gcaagcacgc tggcaaactct ctgtcaggtc agctccagag aagccattag tcatttttagc 60  
 caggaactcc aagtccacat ccttggcaac tggggacttg cgcaggttag ccttgaggat 120  
 ggcaacacgg gacttctcat caggaagtgg gatgtagatg agctgatcaa gacggccagg 180  
 tctgaggatg gcaggatcaa tgatgtcagg ccggttggtc ccgccaatga tgaacacatt 240  
 tttttttgtg gacatgccat ccatttctgt caggatctgg ttgatgactc ggtcagcagc 300  
 c 301

<210> 232  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 232  
 agtaggtatt tctgtgagaag ttcaacacca aaactggaac atagttctcc ttcaagtgtt 60  
 ggcgacagcg gggcttctctg attctggaat ataactttgt gtaaattaac agccacctat 120  
 agaagagtcc atctgtctgtg aaggagagac agagaactct gggttccgtc gtctctgtcca 180  
 cgtgtctgtac caagtgtctgg tgccagcctg ttacctgttc tactgaaaa tctggctaatt 240  
 gctcttgtgt atcacttctg attctgacaa tcaatcaatc aatggcctag agcactgact 300  
 g 301

<210> 233  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 233  
 atgactgact tcccagtaag gctctctaag gggtaagtag gaggatccac aggatttgag 60  
 atgctaaggc cccagagatc gtttgatcca accctcttat ttfcagaggg gaaaatgggg 120  
 cctagaagtt acagagcatc tagctgggtgc gctggcacc cttggcctcac acagactccc 180  
 gagtagctgg gactacaggc acacagtcac tgaagcaggc cctgttagca attctatgcg 240  
 taaaaattaa catgagatga gtagagactt tattgagaaa gcaagagaaa atcctatcaa 300  
 c 301

<210> 234  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 234  
 aggtcctaca catcgagact catccatgat tgatatgaat ttaaaaatta caagcaaaga 60  
 cattttattc atcatgatgc tttcttttgt ttcttctttt cgttttcttc tttttctttt 120  
 tcaatttcag caacatactt ctcaatttct tcaggattta aaatcttgag ggattgatct 180  
 cgcctcatga cagcaagtgc aatgtttttg ccacctgact gaaccacttc caggagtgcc 240

ttgatcacca gcttaatggg cagatcatct gcttcaatgg cttcgtcagt atagttcttc 300  
t 301

<210> 235  
<211> 283  
<212> DNA  
<213> Homo sapien

<400> 235  
tggggctgtg catcaggcgg gtttgagaaa tattcaattc tcagcagaag ccagaatttg 60  
aattccctca tcttttaggg aatcatttac caggtttgga gaggattcag acagctcagg 120  
tgctttcact aatgtctctg aacttctgtc cctctttggt catggatagt ccaataaata 180  
atgttatctt tgaactgatg ctcataggag agaataaag aactctgagt gatatcaaca 240  
ttagggattc aaagaaatat tagatttaag ctcacactgg tca 283

<210> 236  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 236  
aggtcctcca ccaactgcct gaagcacggg taaaattggg aagaagtata gtgcagcata 60  
aatactttta atcgcacag atttccctaa cccacatgca atcttcttca ccagaagagg 120  
tcggagcagc atcattaata ccaagcagaa tgcgtaatag ataaatacaa tggatatag 180  
tgggtagacg gttcatgag tacagtgtac tgtggatatcg taatctggac ttgggttgta 240  
aagcatcgtg taccagtcag aaagcatcaa tactcgacat gaacgaatat aaagaacacc 300  
a 301

<210> 237  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 237  
cagtggtagt ggtgggtggc gtggcggttg tcgtgggtgcc ttttttggtg cccgtcacaa 60  
actcaatttt tgttcgctcc tttttggcct tttccaattt gtccatctca attttctggg 120  
ccttggctaa tgctcatag taggagtcct cagaccagcc atggggatca aacatatcct 180  
ttgggtagtt ggtgccaagc tcgtcaatgg cacagaatgg atcagcttct cgtaaatcta 240  
gggttccgaa attctttctt cctttggata atgtagttca tatccattcc ctcctttatc 300  
t 301

<210> 238  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 238  
gggcagggtt tttttttttt ttttttgatg gtgcagaccc ttgctttatt tgtctgactt 60  
gttcacagtt cagccccctg ctccagaaaac caacgggccca gctaaggaga ggaggaggca 120  
ccttgagact tccggagtcg aggcctctcca gggttcccca gcccatcaat cattttctgc 180  
acccccctgcc tgggaagcag ctccctgggg ggtgggaatg ggtgactaga agggatttca 240  
gtgtgggacc cagggtctgt tcttcacagt aggaggtgga agggatgact aatttcttta 300  
t 301

<210> 239  
 <211> 239  
 <212> DNA  
 <213> Homo sapien

<400> 239  
 ataagcagct aggggaattct ttatttagta atgtcctaac ataaaagtgc acataactgc 60  
 ttctgtcaaaa ccatgatact gagctttgtg acaaccaga aataactaag agaaggcaaa 120  
 cataatacct tagagatcaa gaaacattta cacagttcaa ctgtttaaaa atagctcaac 180  
 attcagccag tgagtagagt gtgaatgcc a gcatacacag tatacaggtc cttcaggga 239

<210> 240  
 <211> 300  
 <212> DNA  
 <213> Homo sapien

<400> 240  
 ggtcctaattg aagcagcagc ttccacattt taacgcagggt ttacgggtgat actgtccttt 60  
 gggatctgcc ctccagtggg accttttaag gaagaagtgg gcccaagcta agttccacat 120  
 gctgggtgag ccagatgact tctgttccct ggtcactttc ttcaatgggg cgaatggggg 180  
 ctgccagggt tttaaaatca tgcttcatct tgaagcacac ggtcacttca cctcctcac 240  
 gctgtgggtg tactttgatg aaaataccca ctttgttggc ctttctgaag ctataatgtc 300

<210> 241  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 241  
 gaggtctggt gctgagggtct ctgggctagg aagaggaggt ctgtggagct ggaagccaga 60  
 cctctttgga ggaaactcca gcagctatgt tgggtgtctct gagggaatgc aacaaggctg 120  
 ctctccatg tattggaaaa ctgcaaaactg gactcaactg gaagggaagt ctgctgccag 180  
 tgtgaagaac cagcctgagg tgacagaaac ggaagcaaac aggaacagcc agtcttttct 240  
 tcctcctcct gtcatacgggt ctctctcaag catectttgt tgtcaggggc ctaaaaggga 300  
 g 301

<210> 242  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 242  
 ccgaggtcct gggatgcaac caatcactct gtttcacgtg acttttatca ccatacaatt 60  
 tgtggcattt cctcattttc tacattgtag aatcaagagt gtaaataaat gtatatcgat 120  
 gtcttcaaga atatatcatt cctttttcac tagaaccat tcaaaatata agtcaagaat 180  
 cttaatatca acaaatatat caagcaaact ggaaggcaga ataactacca taatttagta 240  
 taagtaccca aagttttata aatcaaaaagc cctaagtata accattttta gaattcaatc 300  
 a 301

<210> 243  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 243  
 aggtaagtcc cagtttgaag ctcaaaagat ctggtatgag cataggctca tcgacgacat 60  
 ggtggcccaa gctatgaaat cagagggagg cttcatctgg gcctgtaaaa actatgatgg 120  
 tgacgtgcag tcggactctg tggcccaagg gtatggctct ctcggcatga tgaccagcgt 180  
 gctggtttgt ccagatggca agacagtaga agcagaggct gccacggga ctgtaacccg 240  
 tcaactaccg atgttccaga aaggacagga gacgtccacc aatcccattg cttccatttt 300  
 t 301

<210> 244  
 <211> 300  
 <212> DNA  
 <213> Homo sapien

<400> 244  
 gctggtttgc aagaatgaaa tgaatgattc tacagctagg acttaacctt gaaatggaaa 60  
 gtcattgcaat cccatttgca ggatctgtct gtgcacatgc ctctgtagag agcagcattc 120  
 ccagggacct tggaaacagt tgacactgta aggtgcttgc tccccaagac acatcctaaa 180  
 aggtgttgta atggtgaaaa cgtcttctct ctttattgcc cttcttatt tatgtgaaca 240  
 actgtttgtc ttttgtgtat cttttttaa ctgtaaagtt caattgtgaa aatgaatatc 300

<210> 245  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 245  
 gtctgagtat ttaaaatggt attgaaatta tccccaacca atgttagaaa agaaagaggt 60  
 tatatactta gataaaaaat gaggtgaatt actatccatt gaaatcatgc tcttagaatt 120  
 aaggccagga gatattgtca ttaatgtara cttcaggaca cttagagtata gcagccctat 180  
 gttttcaaag agcagagatg caattaaata ttgttttagca tcaaaaaggc cactcaatac 240  
 agctaataaa atgaaagacc taatttctaa agcaattctt tataatttac aaagttttaa 300  
 g 301

<210> 246  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 246  
 ggtctgtcct acaatgcctg cttcttgaaa gaagtcggca ctttctagaa tagctaaata 60  
 acctgggctt attttaaaga actatttgta gctcagattg gttttcctat ggctaaaata 120  
 agtgcttctt gtgaaaatta aataaaacag ttaattcaaa gccttgatat atgttaccac 180  
 taacaatcat actaaatata ttttgaagta caaagtttga catgctctaa agtgacaacc 240  
 caaatgtgtc ttacaaaaca cgttcctaac aaggtatgct ttacactacc aatgcagaaa 300  
 c 301

<210> 247  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 247  
 aggtcctttg gcagggtcctc tggatcagag ctcaaactgg agggaaaggc atttcgggta 60  
 gcctaagagg gcgactggcg gcagcacaac caaggaaggc aaggttgttt ccccccagct 120

gtgtcctgtg ttcaggtgcg acacacaatc ctcatgggaa caggatcacc catgcgctgc 180  
 ccttgatgat caaggttggg gcttaagtgg attaaggag gcaagttctg ggttccttgc 240  
 cttttcaaac catgaagtca ggctctgtat ccttcctttt cctaactgat attctaacta 300  
 a 301

<210> 248  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 248  
 aggtccttgg agatgccatt tcagccgaag gactcttctw ttcggaagta caccctcact 60  
 attaggaaga ttcttagggg taatttttct gaggaaggag aactagccaa ctttaagaatt 120  
 acaggaagaa agtggtttgg aagacagcca aagaaataaa agcagattaa attgtatcag 180  
 gtacattcca gcctgttggc aactccataa aaacatttca gattttaatc ccgaatttag 240  
 ctaatgagac tggatttttg ttttttatgt tgtgtgtcgc agagctaaaa actcagttcc 300  
 c 301

<210> 249  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 249  
 gtccagagga agcacctggt gctgaactag gcttgccctg ctgtgaactt gcacttggag 60  
 ccttgacgct gctgttctcc ccgaaaaacc cgaccgaact ccgcgatctc cgtcccgcgc 120  
 ccaggagagac acagcagtga ctacagagctg gtgcacact gtgcctccct cctcaccgcc 180  
 catcgtaatg aattattttg aaaattaatt ccaccatcct ttcagattct ggatggaaag 240  
 actgaatctt tgactcagaa ttgtttgctg aaaagaatga tgtgactttc ttagtcattt 300  
 a 301

<210> 250  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 250  
 ggtctgtgac aaggacttgc aggctgtggg aggcaagtga cccttaacac tacacttctc 60  
 cttatcttta ttggcttgat aaacataatt atttctaaca ctacttatt tccagttgcc 120  
 cataagcaca tcagtacttt tctctggctg gaatagtaaa ctaaagtatg gtacatctac 180  
 ctaaaagact actatgtgga ataatacata ctaatgaagt attacatgat ttaaagacta 240  
 caataaaacc aaacatgctt ataacattaa gaaaaacaat aaagatacat gattgaaacc 300  
 a 301

<210> 251  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 251  
 gcagaggtcc tacatttggc ccagtttccc cctgcctcct ctccagggcc cctgcctcat 60  
 agacaacctc atagagcata ggagaactgg ttgccctggg ggcaggggga ctgtctggat 120  
 ggcaggggtc ctcaaaaatg ccactgtcac tgccaggaaa tgcttctgag cagtacacct 180  
 cattgggata aatgaaaagc ttcaagaaat cttcaggctc actctcttga aggcccgaa 240

cctctggagg ggggcagtgg aatcccagct ccaggacgga tcctgtcgaa aagatatacct 300  
c 301

<210> 252  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 252  
gcaaccaatc actctgtttc acgtgacttt taccaccata caatttgttg catttcctca 60  
ttttctacat tgtagaatca agagtgtaaa taaatgtata tcgatgtctt caagaatata 120  
tcatttccttt ttcactagga acccattcaa aatataagtc aagaatctta atatcaacaa 180  
atatatcaag caaactggaa ggcagaataa ctaccataat ttagtataag taccctaaagt 240  
tttataaatc aaaagcccta atgataacca tttttagaat tcaatcatca ctgtagaatc 300  
a 301

<210> 253  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 253  
ttccctaaga agatgttatt ttgttggggt ttgttccccc tccatctcga ttctcgtacc 60  
caactaaaaa aaaaaaataa agaaaaaatg tgctgcgttc tgaaaaataa ctcccttagct 120  
tggtctgatt gttttcagac cttaaaaatat aaacttggtt cacaagcttt aatccatgtg 180  
gatttttttt cttagagaac cacaaaaacat aaaaggagca agtcggactg aatacctgtt 240  
tccatagtgc ccacagggta ttccctcacat tttctccata ggaaaaatgct ttttcccaag 300  
g 301

<210> 254  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 254  
cgctgcgcct ttcccttggg ggaggggcaa ggccagaggg ggtccaagtg cagcacgagg 60  
aacttgacca attcccttga agcgggtggg ttaaaccctg taaatgggaa caaatcccc 120  
ccaaatctct tcatcttacc ctggttgact cctgactgta gaattttttg gttgaaacaa 180  
gaaaaaaata aagcttttga cttttcaagg ttgcttaaca ggtactgaaa gactggcctc 240  
acttaaaactg agccaggaaa agctgcagat ttattaatgg gtgtgttagt gtgcagtgcc 300  
t 301

<210> 255  
<211> 302  
<212> DNA  
<213> Homo sapien

<400> 255  
agcttttttt tttttttttt tttttttttt ttcattaaaa aatagtgtct tttattataa 60  
attactgaaa tgtttctttt ctgaatataa atataaatat gtgcaaagt tgacttggat 120  
tgggattttt ttgagttctt caagcatctc ctaataccct caagggcctg agtagggggg 180  
aggaaaaagg actggaggtg gaatctttat aaaaaacaag agtgattgag gcagattgta 240  
aacattatta aaaaacaaga aacaaacaaa aaaatagaga aaaaaaccac cccaacacac 300  
aa 302

<210> 256  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)..(301)  
 <223> n = A,T,C or G

<400> 256  
 gttccagaaa acattgaagg tggcttccca aagtctaact agggataccc cctctagcct 60  
 aggacctcc tccccacacc tcaatccacc aaaccatcca taatgcaccc agataggccc 120  
 acccccaaaa gcctggacac cttgagcaca cagttatgac caggacagac tcctctctat 180  
 aggcaaatac ctgctggcaa actggcatta cctggtttgt ggggatggg gggcaagtgt 240  
 gtggcctctc ggctgggta gcaagaacat tcagggtagg cctaagttan tcgtgttagt 300  
 t 301

<210> 257  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 257  
 gttgtggagg aactctggct tgctcattaa gtcctactga ttttactat cccctgaatt 60  
 tccccactta tttttgtctt tcaactatcg aggccttaga agaggtctac ctgcctccag 120  
 tcttacctag tccagtctac cccctggagt tagaatggcc atcctgaagt gaaaagtaat 180  
 gtcacattac tcccttcagt gatttcttgt agaagtgcc atccctgaat gccaccaaga 240  
 tcttaattct cactcttta atcttatctc tttgactcct ctttacaccg gagaaggctc 300  
 c 301

<210> 258  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)..(301)  
 <223> n = A,T,C or G

<400> 258  
 cagcagtagt agatgccgta tgccagcacg cccagcactc ccaggatcag caccagcacc 60  
 aggggcccag ccaccaggcg cagaagcaag ataaacagta ggctcaagac cagagccacc 120  
 cccagggcaa caagaatcca ataccaggac tgggcaaaat cttcaaagat cttaacactg 180  
 atgtctcggg cattgaggct gtcaataana cgctgatccc ctgctgtatg gtggtgtcat 240  
 tgggtgatccc tgggagcgcc ggtggagtaa cgttgggtcca tggaaagcag cgcccacaac 300  
 t 301

<210> 259  
 <211> 301  
 <212> DNA  
 <213> Homo sapien



<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 259  
 tcatatatgc aaacaaatgc agactangcc tcaggcagag actaaaggac atctcttggg 60  
 gtgtcctgaa gtgatttga cccctgaggg cagacaccta agtaggaatc ccagtgggaa 120  
 gcaaagccat aaggaagccc aggattcctt gtgatcagga agtgggcccag gaaggctctgt 180  
 tccagctcac atctcatctg catgcagcac ggaccggatg cggccactgg gtcttggcctt 240  
 ccctcccatc ttctcaagca gtgtccttgt tgagccattt gcatccttgg ctccaggtgg 300  
 c 301

<210> 260  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 260  
 ttttttttct cctaaggaa aaagaaggaa caagtctcat aaaaccaa at aagcaatgg 60  
 aagggtgtctt aacttgaaaa agattaggag tcaactggttt acaagttata attgaatgaa 120  
 agaactgtaa cagccacagt tggccatttc atgccaatgg cagcaaaca caggattaac 180  
 tagggcaaaa taaataagtg tgtggaagcc ctgataagtg cttaataaac agactgattc 240  
 actgagacat cagtacctgc ccgggcccgc gctcgagccg aattctgcag atatccatca 300  
 c 301

<210> 261  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 261  
 aaatatttga gcaaatcctg taactaatgt gtctccataa aaggctttga actcagtga 60  
 tctgtctcca tccacgattc tagcaatgac ctctcggaca tcaaagctcc tottaagggtt 120  
 agcaccaact attccataca attcatcagc aggaataaaa ggctcttcag aagggttcaat 180  
 ggtgacatcc aatttcttct gataatttag attcctcaca accttcctag ttaagtgaag 240  
 ggcatgatga tcatcctaaag cccagtgggc acttactcca gactttctgc aatgaagatc 300  
 a 301

<210> 262  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 262  
 gaggagagcc tgttacagca tttgtaagca cagaatactc caggagtatt tgtaattgtc 60  
 tgtgagcttc ttgccgcaag tctctcagaa atttaaaaag atgcaaatac ctgagtcacc 120  
 cctagacttc ctaaaccaga tctcttgggg ctggaacctg gcaactctga tttgtaatga 180  
 gggctttctg gtgcacacct aattttgtgc atctttgccc taaatcctgg attagtgc 240  
 catcattacc cccacattat aatgggatag attcagagca gatactctcc agcaaagaat 300  
 c 301

<210> 263

<211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 263

tttagcttgt	ggtaaatgac	tcacaaaact	gatttttaaaa	tcaagttaat	gtgaattttg	60
aaaattacta	cttaaatccta	attcacaata	acaatggcat	taaggtttga	cttgagttgg	120
ttcttagtat	tatttatggg	aaataggctc	ttaccacttg	caaataactg	gccacatcat	180
taatgactga	cttcccagta	aggctctcta	aggggtaagt	angaggatcc	acaggatttg	240
agatgctaag	gccccagaga	tcgtttgatc	caaccctctt	attttcagag	gggaaaatgg	300
g						301

<210> 264  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 264

aaagacgtta	aaccactcta	ctaccacttg	tggaactctc	aaagggtaaa	tgacaaaacc	60
aatgaatgac	tctaaaaaca	atattttacat	ttaatggttt	gtagacaata	aaaaaacaag	120
gtggatagat	ctagaattgt	aacatttttaa	gaaaaccata	scatttgaca	gatgagaaaag	180
ctcaattata	gatgcaaagt	tataactaaa	ctactatagt	agtaaagaaa	tacattttcac	240
acccttcata	taaattcact	atcttggctt	gaggcactcc	ataaaatgta	tcacgtgcat	300
a						301

<210> 265  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 265

tgccccaggtt	atgtgtaagt	gtatccgcac	ccagaggtaa	aactacactg	tcattctttgt	60
cttcttgtga	cgcagtatct	cttctctggg	gagaagccgg	gaagtcttct	cctggctcta	120
catattcttg	gaagtctcta	atcaactttt	gttccatttg	tttcatttct	tcaggaggga	180
ttttcagttt	gtcaacatgt	tctctaacaa	cacttgccca	tttctgtaaa	gaatccaaag	240
cagtccaagg	ctttgacatg	tcaacaacca	gcataactag	agtatccttc	agagatacgg	300
c						301

<210> 266  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 266

taccgtctgc	ccttctctcc	atccaggcca	tctgcgaatc	tacatgggtc	ctcctattcg	60
acaccagatc	actctttcct	ctaccacag	gcttgctatg	agcaagagac	acaacctcct	120
ctcttctgtg	ttccagcttc	ttttctgtt	cttcccaccc	cttaagttct	attcctgggg	180
atagagacac	caatacccat	aacctctctc	ctaagcctcc	ttataacca	gggtgcacag	240
cacagactcc	tgacaactgg	taaggccaat	gaactgggag	ctcacagctg	gctgtgcctg	300

a

301

<210> 267  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 267

```

aaagagcaca ggccagctca gctgcccctg gccatctaga ctcagcctgg ctccatgggg      60
gttctcagtg ctgagtccat ccaggaaaag ctcacctaga ctttctgagg ctgaatcttc      120
atcctcacag gcagcttctg agagcctgat attcctagcc ttgatggctt ggagtaaage      180
ctcattctga ttctctctct tcttttcttt caagttggct ttcttcacat cctctgttc      240
aattcgcttc agcttgtctg ctttagccct catttcacga agcttcttct ctttggcacc      300
t                                                                    301

```

<210> 268  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 268

```

aatgtctcac tcaactactt cccagcctac cgtggcctaa ttctgggagt tttcttctta      60
gatcttgagg gagctgggtc ttctaaggag aaggaggaag gacagatgta actttggatc      120
tcgaagagga agtctaattg aagtaattag tcaacgggtc ttgttttagac tcttggaata      180
tgctgggtgg ctcagtgagc ccttttggag aaagcaagta ttattcttaa ggagtaacca      240
cttcccattg ttctacttcc taccatcacc aattgtatat tatgtattct ttggagaact      300
a                                                                    301

```

<210> 269  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 269

```

taacaatata cactagctat ctttttaact gtccatcatt agcaccaatg aagattcaat      60
aaaattacct ttattcacac atctcaaaac aattctgcaa attcttagtg aagttaaact      120
atagtcacag acctaaata ttacacattgt tttctatgtc tactgaaaat aagttcacta      180
cttttctgga tattctttac aaaatcttat taaaattcct ggtattatca cccccaatta      240
tacagtagca caaccacctt atgtagtttt tacatgatag ctctgtagaa gtttcacacc      300
t                                                                    301

```

<210> 270  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 270

```

cattgaagag cttttgcgaa acatcagaac acaagtgcct ataaaattaa ttaagcctta      60
cacaagaata catattcctt ttattttctaa ggagttaaac atagatgtag ctgatgtgga      120
gagcttgctg gtgcagtgcg tattggataa cactattcat ggccgaattg atcaagtcaa      180
ccaactcctt gaactggatc atcagaagaa ggggtggtgc cgatatactg cactagataa      240
tggaaccaacc aactaaattc tctcaccagg ctgtatcagt aaactggcct aacagaaaac      300
a                                                                    301

```

```
<210> 274
<211> 301
<212> DNA
<213> Homo sapien
```



&lt;400&gt; 277

```

tttgttgatg tcagtatttt attacttgcg ttatgagtgc tcacctggga aattctaaag      60
atacagagga cttggaggaa gcagagcaac tgaatttaat ttaaaagaag gaaaacattg      120
gaatcatggc actcctgata ctttcccaaa tcaacactct caatgcccca ccctcgtcct      180
caccatagtg gggagactaa agtggccacg gatttgcctt anggtgtcag tgcgttctga      240
gttcnctgtc gattacatct gaccagtctc ctttttccga agtcntccg ttcaatcttg      300
c                                                                    301

```

&lt;210&gt; 278

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(301)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 278

```

taccactaca ctccagcctg ggcaacagag caagacctgt ctcaaagcat aaaatggaat      60
aacatatcaa atgaaacagg gaaaatgaag ctgacaattt atggaagcca gggcttgtca      120
cagtctctac tgttattatg cattacctgg gaatttatat aagcccttaa taataatgcc      180
aatgaacatc tcatgtgtgc tcacaatggt ctggcactat tataagtgtc tcacaggttt      240
tatgtgttct tcgtaacttt atggantagg tactcggcgc cgaacacgct aagccgaatt      300
c                                                                    301

```

&lt;210&gt; 279

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(301)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 279

```

aaagcaggaa tgacaaagct tgcttttctg gtatgttcta ggtgtattgt gacttttact      60
gttatattaa ttgccaatat aagtaaatat agattatata tgtatagtgt ttcacaaagc      120
ttagaccttt accttcagc caccacacag tgcttgatat ttcagagtca gtcattgggt      180
atacatgtgt agttccaaag cacataagct agaanaanaa atatttctag ggagcactac      240
catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag      300
a                                                                    301

```

&lt;210&gt; 280

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 280

```

ggtactggag ttttcctccc ctgtgaaaac gtaactactg ttgggagtga attgaggatg      60
tagaaagggt gtggaaccaa attgtgggtc atggaaatag gagaatatgg ttctcactct      120
tgagaaaaaa acctaaagatt agcccaggta gttgcctgta acttcagttt ttctgcctgg      180
gtttgatata gtttaggggt ggggttagat taagatctaa attacatcag gacaaagaga      240

```

cagactatta actccacagt taattaagga ggtatgttcc atgtttatatt gttaaagcag 300  
t 301

<210> 281  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 281  
aggtacaaga aggggaatgg gaaagagctg ctgctgtggc attgttcaac ttggatatcc 60  
gccgagcaat ccaaatcctg aatgaagggg catcttctga aaaaggagat ctgaatctca 120  
atgtggtagc aatggcttta tcgggttata cggatgagaa gaactccctt tggagagaaa 180  
tgtgtagcac actgcgatta cagctaaata acccgatatt gtgtgtcatg tttgcatttc 240  
tgacaagtga aacaggatct tacgatggag ttttgtatga aaacaaagtt gcagtacctc 300  
g 301

<210> 282  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 282  
caggctactac agaattaaaa tactgacaag caagtagttt cttggcgtgc acgaattgca 60  
tccagaacct aaaaattaaag aaattcaaaa agacattttg tgggcacctg ctgacacaga 120  
agcgcagaag caaagccagc gcagaacctat gctaacctta cagctcagcc tgcacagaag 180  
cgcagaagca aagccaggc agaacctatg taaccttaca gctcagcctg cacagaagcg 240  
cagaagcaaa gcccaggcag aacatgctaa ccttacagct cagcctgcac agaagcacag 300  
a 301

<210> 283  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 283  
atctgtatac ggcagacaaa ctttatarag tgtagagagg tgagcgaaag gatgcaaaag 60  
cactttgagg gctttataat aatatgctgc ttgaaaaaaa aaatgtgtag ttgatactca 120  
gtgcatctcc agacatagta aggggttgct ctgaccaatc aggtgatcat tttttctatc 180  
acttcccagg ttttatgcaa aaattttgtt aaattctata atggtgatat gcatctttta 240  
ggaaacatat acatttttta aaatctatct tatgtaagaa ctgacagacg aatttgcttt 300  
g 301

<210> 284  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 284  
caggtaaaaa acgctattaa gtggccttaga atttgaacat ttgtggtctt tatttacttt 60  
gcttcgtgtg tgggcaaagc aacatcttcc cttaaataat attaccaaga aaagcaagaa 120  
gcagattagg tttttgacaa aacaaacagg ccaaaagggg gctgacctg agcagagcat 180  
ggtgagaggc aaggcatgag agggcaagtt tgttgtggac agatctgtgc ctactttatt 240  
actggagtaa aagaaaacaa agttcattga tgtcgaagga tatatacagt gttagaaaatt 300  
a 301

<210> 285  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 285

acatcaccat gatcggtacc	cccacccatt	atacgttgta	tgtttacata	aatactcttc	60
aatgatcatt agtgttttaa	aaaaaatact	gaaaactcct	tctgcatccc	aatctctaac	120
caggaaagca aatgctattt	acagacctgc	aagccctccc	tcaaacnaaa	ctatttctgg	180
attaaatatg tctgacttct	tttgagggtca	cacgactagg	caaagtctat	ttacgatctg	240
caaaagctgt ttgaagagtc	aaagccccc	tgtgaacacg	atttctggac	cctgtaacag	300
t					301

<210> 286  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 286

taccaactgca ttccagcctg	ggtgacagag	tgagactccg	tctccaaaaa	aaactttgct	60
tgtatattat ttttgccctta	cagtggatca	ttctagtagg	aaaggacagt	aagatttttt	120
atcaaaatgt gtcatgccag	taagagatgt	tatattcttt	tctcatttct	tccccacca	180
aaaataagct accatatagc	ttataagtct	caaatttttg	ccttttacta	aaatgtgatt	240
gtttctgttc attgtgtatg	cttcacacc	tatattaggc	aaattccatt	ttttcccttg	300
t					301

<210> 287  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 287

tacagatctg ggaactaaat	attaaaaatg	agtgtggctg	gatatatgga	gaatgttggg	60
cccagaagga acgtagagat	cagatattac	aacagctttg	ttttgagggt	tagaaatatg	120
aaatgatttg gttatgaacg	cacagttagg	gcagcagggc	cagaatcctg	accctctgcc	180
ccgtgggttat ctctcctcca	gcttggctgc	ctcatgttat	cacagtattc	cattttgttt	240
gttgcagtgc ttgtgaagcc	atcaagattt	tctcgtctgt	tttcctctca	ttggtaatgc	300
t					301

<210> 288  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 288

gtacacctaa ctgcaaggac	agctgaggaa	tgtaatgggc	agccgctttt	aaagaagtag	60
agtcaatagg aagacaaatt	ccagttccag	ctcagtcctg	gtatctgcaa	agctgcaaaa	120
gatcttttaa gacaatttca	agagaatatt	tccttaaagt	tggcaatttg	gagatcatac	180



```

aaaagcatct gcttttgtga ttttaatttag ctcatctggc cactggaaga atccaaacag      240
tctgccttaa ttttgatga atgcatgatg gaaattcaat aatttagaaa gttaaaaaaa      300
a                                                                           301

```

```

<210> 289
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 289
ggtacactgt ttccatgtta tgtttctaca cattgctacc tcagtgtcc tggaaactta      60
gcttttcatg tctccaagta gtccaccttc atttaactct ttgaaactgt atcatctttg      120
ccaagtaaga gtggtggcct atttcagctg ctttgacaaa atgactggct cctgacttaa      180
cgttctataa atgaatgtgc tgaagcaaag tgcccatggg ggccggcgaan aagagaaaga      240
tgtgttttgt tttggactct ctgtgggtccc ttccaatgct gtgggtttcc aaccagngga      300
a                                                                           301

```

```

<210> 290
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 290
aactgagct cttcttgata aatatacaga atgcttggca tatacaagat tctatactac      60
tgactgatct gttcatttct ctacagctc ttaccccaa aagcttttcc accctaagtg      120
ttctgacctc cttttctaata cacagtaggg atagaggcag anccacctac aatgaacatg      180
gagttctatc aagaggcaga aacagcacag aatcccagtt ttaccattcg ctagcagtgc      240
tgccctgaac aaaaacattt ctccatgtct ctttttcttc atgcctcaag taacagtga      300
a                                                                           301

```

```

<210> 291
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 291
caggtaccaa tttcttctat cctagaaaca tttcatttta tgttgttgaa acataacaac      60
tatatcagct agattttttt tctatgcttt acctgctatg gaaaatttga cacattctgc      120
tttactcttt tgtttatagg tgaatcacia aatgtatttt tatgtattct gtagttcaat      180
agccatggct gtttacttca ttttaatttat ttagcataaa gacattatga aaaggcctaa      240
acatgagctt cacttcccca ctaactaatt agcatctgtt atttcttaac cgtaatgcct      300
a                                                                           301

```

```

<210> 292

```

<211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 292  
 accttttagt agtaatgtct aataataaat aagaaatcaa ttttataagg tccatatagc 60  
 tgtattaaat aatttttaag tttaaaagat aaaataccat catttttaaat gttggtattc 120  
 aaaaccaaag natataaccg aaaggaaaaa cagatgagac ataaaatgat ttgcnagatg 180  
 ggaaatatag tasttyatga atgttnatta aattccagtt ataatagtgg ctacacactc 240  
 tcactacaca cacagacccc acagtcctat atgccacaaa cacatttcca taacttgaaa 300  
 a 301

<210> 293  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 293  
 ggtaccaagt gctgggtgcc gctgtttacc tgtttctcact gaaaagtctg gctaatgctc 60  
 ttgtgtagtc actttctgatt ctgacaatca atcaatcaat ggcctagagc actgactggt 120  
 aacacaaacg tcaactagcaa agtagcaaca gctttaagtc taaatacaaa gctgtttctgt 180  
 gtgagaatth tttaaaaggc tactttgtata ataacccttg tcattttttaa tgtacctcgg 240  
 ccgcgaccac gctaagccga attctgcaga tatccatcac actggcgggc gctcgagcat 300  
 g 301

<210> 294  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 294  
 tgacccataa caatatacac tagctatctt tttaactgtc catcattagc accaatgaag 60  
 attcaataaa attaccttta ttcacacatc tcaaaaacaat tctgcaaatt cttagtgaag 120  
 tttaactata gtcacaganc ttaaattatc acattgtttt ctatgtctac tgaaaataag 180  
 ttcaactatt ttctgggata ttctttacaa aatcttatta aaattcctgg tattatcacc 240  
 cccaattata cagtagcaca accaccttat gtagttttta catgatagct ctgtagagggt 300  
 t 301

<210> 295  
 <211> 305  
 <212> DNA  
 <213> Homo sapien

<400> 295

```
<210> 296
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 297
<211> 300
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G
```

```
<210> 298
<211> 301
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G
```

<400>	298						
tatgggggttt	gtcaccceaaa	agctgatgct	gagaaaggcc	tccttggggc	ccctcccgcg		60
ggcatctgag	agacctggtg	ttccagtggt	tctggaaatg	ggtcccagtg	ccgcgcgctg		120
tgaagctctc	agatcaatca	cgggaagggc	ctggcggtgg	tggccacctg	gaaccaccct		180
gtcctgtctg	tttacatttc	actaycaggt	tttctctggg	cattacnatt	tgttccccta		240
caacagtgac	ctgtgcattc	tgctgtggcc	tgctgtgtct	gcaggtggct	ctcagcgagg		300
t							301

<210> 299  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 299  
 gttttgagac ggagtttcac tcttgttgcc cagactggac tgcaatggca gggctctctgc 60  
 tcaactgcacc ctctgcctcc caggttcgag caattctcct gcctcagcct cccaggtagc 120  
 tgggattgca ggctcacgcc accataccca gctaattttt ttgtattttt agtagagacg 180  
 gagtttcgcc atgttggcca gctggtctca aactcctgac ctcaagcgac ctgcctgcct 240  
 cggcctccca aagtgctgga attataggca tgagtcaaca cgcccagcct aaagatatatt 300  
 t 301

<210> 300  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 300  
 attcagtttt atttgctgcc ccagtatctg taaccaggag tgccacaaaa tottgccaga 60  
 tatgtcccac acccactggg aaaggctccc acctggctac ttctctatc agctgggtca 120  
 gctgcattcc acaaggttct cagcctaatt agtttacta cctgccagtc tcaaaactta 180  
 gtaaagcaag accatgacat tccccacgg aaatcagagt ttgccccacc gtcttggtac 240  
 tataaagcct gcctctaaca gtcccttgctt cttcacacca atcccagcgc catcccccat 300  
 g 301

<210> 301  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 301  
 tttaaattttt gagaggataa aaaggacaaa taatctagaa atgtgtcttc ttcagtctgc 60  
 agaggacccc aggtctccaa gcaaccacat ggtcaagggc atgaataatt aaaagttggt 120  
 gggaactcac aaagaccctc agagctgaga caccacaaac agtgggagct cacaagacc 180  
 ctgagagctg agacaccac aacagtggga gctcacaag accctcagag ctgagacacc 240  
 cacaacagca cctcgttcag ctgccacatg tgtgaataag gatgcaatgt ccagaagtgt 300  
 t 301

<210> 302  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 302  
 aggtacacat ttagcttggt gtaaatgact cacaaaactg attttaaaat caagttaatg 60  
 tgaattttga aaattactac ttaatcctaa ttcacaataa caatggcatt aaggtttgac 120  
 ttgagttggt tcttagtatt atttatggta aataggctct taccacttgc aaataactgg 180  
 ccacatcatt aatgactgac ttcccagtaa ggctctctaa ggggtaagta ggaggatcca 240  
 caggatttga gatgctaagg ccccagagat cgtttgatcc aaccctctta ttttcagagg 300  
 g 301

<210> 303

<211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 303  
 aggtaccaac tgtggaaata ggtagaggat cattttttct ttccatatca actaagttgt 60  
 atattgtttt ttgacagttt aacacatctt cttctgtcag agattctttc acaatagcac 120  
 tggctaattg aactaccgct tgcattgtta aaatgggtgt ttgtgaaatg atcataggcc 180  
 agtaacgggt atgtttttct aactgatctt ttgtctgttc caaagggacc tcaagacttc 240  
 catcgatttt atatctgggg tctagaaaag gagttaatct gttttccctc ataaattcac 300  
 c 301

<210> 304  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 304  
 acatggatgt tattttgcag actgtcaacc tgaatttgta tttgcttgac attgcctaatt 60  
 tattagtttc agtttcagct taccactttt ttgtctgcaa catgcaraas agacagtgcc 120  
 ctttttagtg tatcatatca ggaatcatct cacattgggt tgtgccatta ctggtgcagt 180  
 gactttcagc cacttgggta aggtggagtt ggccatatgt ctccactgca aaattactga 240  
 ttttcctttt gtaattaata agtgtgtgtg tgaagattct ttgagatgag gtatatatct 300  
 c 301

<210> 305  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 305  
 gangtacagc gtgtgcaagg taacaagaag aaaaaaatgt gagtggcatc ctgggatgag 60  
 cagggggaca gacctggaca gacacgttgt catttgctgc tgtgggtagg aaaatgggcg 120  
 taaaggagga gaaacagata caaaatctcc aactcagtat taaggatttc tcatgcctag 180  
 aatattggta gaaacaagaa tacattcata tggcaaataa ctaaccatgg tggaacaaaa 240  
 ttctgggatt taagttggat accaangaaa ttgtattaaa agagctgttc atggaataag 300  
 a 301

<210> 306  
 <211> 8  
 <212> PRT  
 <213> Homo sapien

<400> 306  
 Val Leu Gly Trp Val Ala Glu Leu  
 1 5

<210> 307  
 <211> 637

<213> Homo sapien

acagggratg	aagggaaagg	gagaggatga	ggaagccccc	ctggggattt	ggtttggtcc	60
tttgtatcag	gtggtctatg	gggcttatcc	ctacaaagaa	gaatccagaa	ataggggcac	120
attgaggaat	gatacttgag	cccaaagagc	attcaatcat	tgttttattt	gccttmtttt	180
cacaccattg	gtgagggagg	gattaccacc	ctggggttat	gaagatgggt	gaacacccca	240
cacatagcac	cggagatatg	agatcaacag	tttcttagcc	atagagattc	acagcccaga	300
gcaggaggac	gcttgcacac	catgcaggat	gacatggggg	atgcgctcgg	gattgggtgtg	360
aagaagcaag	gactgttaga	ggcaggcttt	atagtaacaa	gacggtgggg	caaactctga	420
tttccgtggg	ggaattgtcat	ggtcttgcct	tactaagttt	tgagactggc	aggtagtgaa	480
actcattagg	ctgagaacct	tgtggaatgc	acttgacca	scgtagatag	gaagtagcca	540
ggtgggagcc	tttcccagtg	ggtgtgggac	atatctggca	agattttgtg	gcactcctgg	600
ttacagatac	tggggcagca	aataaaaactg	aatcttg			637

<213> Homo sapien

$\langle 223 \rangle$  n = A, T, C or G

acgattttca	ttatcatgta	aatcgggtca	ctcaaggggc	caaccacagc	tgggagccac	60
tgctcagggg	aaggttcata	tgggactttc	tactgcccaa	ggttctatac	aggatataaa	120
gngcctcac	agtatagatc	tggtagcaaa	gaagaagaaa	caaacactga	tctctttctg	180
ccacccctct	gaccttttg	aactcctctg	accctttaga	acaagcctac	ctaatatctg	240
ctagagaaaa	gaccaacaac	ggcctcaaag	gatctcttac	catgaaggtc	tcagctaatt	300
cttggctaag	atgtgggttc	cacattaggt	tctgaatatg	gggggaaggg	tcaatttgct	360
cattttgtgt	gtggataaag	tcaggatgcc	caggggccag	agcagggggc	tgettgtctt	420
gggaacaatg	gctgagcata	taacatagcc	ttatggggaa	caaaacaaca	tcaaagtcac	480
tgtatcaatt	gccatgaaga	cttgagggac	ctgaatctac	cgattcatct	taaggcagca	540
ggaccagttt	gagtggcaac	aatgcagcag	cagaatcaat	ggaaacaaca	gaatgattgc	600
aatgtccttt	tttttctcct	gcttctgaet	tgataaaaagg	ggaccgt		647

<213> Homo sapien

actttatagt	ttaggctgga	cattggaaaa	aaaaaaaaagc	cagaacaaca	tgtgatagat	60
aatatgattg	gctgcacact	tccagactga	tgaatgatga	acgtgatgga	ctattgtatg	120
gagcacatct	tcagcaagag	ggggaaatac	tcatcatttt	tggccagcag	ttgtttgatc	180
accaaacatc	atgccagaat	actcagcaaa	ccttcttagc	tcttgagaag	tcaaagtcgc	240
ggggaattta	ttcctggcaa	ttttaattgg	actccttatg	tgagagcagc	ggctaccag	300
ctggggtggt	ggagcgaacc	cgtcactagt	ggacatgcag	tggcagagct	cctggtaacc	360
acctagagga	atacacaggc	acatgtgtga	tgccaagcgt	gacacctgta	gcactcaaat	420
ttgtcttggt	tttgtctttc	ggtgtgtaag	attcttaagt			460

<210> 310  
 <211> 539  
 <212> DNA  
 <213> Homo sapien

<400> 310  
 acgggactta tcaaataaag ataggaaaag aagaaaactc aaatattata ggcagaaatg 60  
 ctaaagggtt taaaatatgt caggattgga agaaggcatg gataaagaac aaagttcagt 120  
 taggaaagag aaacacagaa ggaagagaca caataaaaagt cattatgtat tctgtgagaa 180  
 gtcagacagt aagatttgtg ggaaatgggt tggtttgttg tatggtatgt attttagcaa 240  
 taatctttat ggcagagaaa gctaaaatcc tttagcttgc gtgaatgac acttgctgaa 300  
 ttcctcaagg taggcatgat gaaggagggt ttagaggaga cacagacaca atgaactgac 360  
 ctagatagaa agccttagta tactcagcta ggaatagtga ttctgagggc aactgtgac 420  
 atgattatgt cattacatgt atggtagtga tggggatgat aggaaggaag aacttatggc 480  
 atattttcac cccacaaaa gtcagttaaa tattgggaca ctaaccatcc aggtcaaga 539

<210> 311  
 <211> 526  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(526)  
 <223> n = A,T,C or G

<400> 311  
 caaatttgag ccaattgacat agaattttac aaatcaagaa gcttattctg gggccatttc 60  
 ttttgacgtt ttctctaaac tactaaagag gcattaatga tccataaatt atattatcta 120  
 catttacagc atttaaaatg tgttcagcat gaaatattag ctacagggga agctaaataa 180  
 attaaacatg gaataaagat ttgtccttaa atataatcta caagaagact ttgatatttg 240  
 tttttcacia gtgaagcatt cttataaagt gtcataacct ttttggggaa actatgggaa 300  
 aaaatgggga aactctgaag ggttttaagt atcttacctg aagctacaga ctccataacc 360  
 tctctttaca gggagctcct gcagccccta cagaaatgag tggctgagat tcttgattgc 420  
 acagcaagag cttctcatct aaacccttct cctttttagt atctgtgtat caagtataaa 480  
 agttctataa actgtagtnt acttatttta atcccaaaag cacagt 526

<210> 312  
 <211> 500  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(500)  
 <223> n = A,T,C or G

<400> 312  
 cctctctctc cccaccccct gactctagag aactgggttt tctcccagta ctccagcaat 60  
 toattttctga aagcagttga gccactttat tccaaagtac actgcagatg ttcaaactct 120  
 ccattttctt ttcccttcca cctgccagtt ttgctgactc tcaacttgtc atgagtgtaa 180  
 goattaagga cattatgctt cttcgattct gaagacaggc cctgctcatg gatgactctg 240  
 gcttcttagg aaaatatatt tcttccaaaa tcagtaggaa atctaaactt atccccctctt 300  
 tgcagatgtc tagcagcttc agacatttgg ttaagaaccc atgggaaaaa aaaaaatcct 360

```

tgctaattgtg gtttcctttg taaaccanga ttcttatttg nctggtatag aatatcagct 420
ctgaacgtgt ggtaaagatt tttgtgtttg aatataggag aaatcagttt gctgaaaagt 480
tagtcttaat tatctattgg 500

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```

<210> 313
<211> 718
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(718)
<223> n = A,T,C or G

```

```

<400> 313
ggagatttgt gtggtttgca gccgagggag accaggaaga tctgcatggt gggaaggacc 60
tgatgataca gaggtgagaa ataagaaagg ctgctgactt taccatctga ggccacacat 120
ctgctgaaat ggagataatt aacatcacta gaaacacgaa gatgacaata taatgtctaa 180
gtagtacat gtttttgcac atttccagcc cttttaaata tccacacaca caggaagcac 240
aaaaggaagc acagagatcc ctgggagaaa tgcccggccg ccatcttggg tcatcgatga 300
gcctcgccct gtgcctgntc ccgcttgtga gggaaggaca ttagaaaatg aattgatgtg 360
ttccttaaag gatggcagga aaacagatcc tgttgtggat atttatttga acgggattac 420
agatttgaaa tgaagtcaca aagtgagcat taccaatgag aggaaaacag acgagaaaat 480
cttgatggtt cacaagacat gcaacaaaca aaatggaata ctgtgatgac acgagcagcc 540
aactggggag gagataccac ggggcagagg tcaggattct ggccctgctg cctaactgtg 600
cggtatacca atcatttcta tttctaccct caaacaagct gtngaataac tgacttacgg 660
ttcttntggc ccacattttc atnatccacc cntcntttt aannttantic caaantgt 718

```

```

<210> 314
<211> 358
<212> DNA
<213> Homo sapien

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<400> 314
gtttattttac attacagaaa aaacatcaag acaatgtata ctatttcaaa tatatccata 60
cataatcaaa tatagctgta gtacatgttt tcattgggtg agattaccac aaatgcaagg 120
caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg ttagtccaa 180
gctctcggtg gtccagccac tgtgaaacat gctcccttta gattaacctc gtggacgctc 240
ttgttgattt gctgaactgt agtgccctgt attttgcttc tgtctgtgaa ttctgttgct 300
tctggggcat ttccttgtga tgcagaggac caccacacag atgacagcaa tctgaatt 358

```

```

<210> 315
<211> 341
<212> DNA
<213> Homo sapien

```

```

<400> 315
taccacctcc ccgctggcac tgatgagccg catcaccatg gtcaccagca ccatgaaggc 60
ataggatgat atgaggacat ggaatgggcc cccaaggatg gtctgtccaa agaagcgagt 120
gacccccatt ctgaagatgt ctggaacctc taccagcagg atgatgatag ccccaatgac 180
agtcaccagc tccccgacca gccggatata gtccttaggg gtcattgagg ctctctgaag 240
tagcttctgc tgtaagaggg tggtgtcccg ggggctcgtg cgggtatttg tcttgggctt 300
gagggggcgg tagatgcagc acatggtgaa gcagatgatg t 341

```



<210> 316  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 316  
 agactgggca agactcttac gccccacact gcaatttggc cttgttgccg tatccattta 60  
 tgtgggcctt tctcgagttt ctgattataa acaccactgg agcgatgtgt tgactggact 120  
 cattcaggga gctctgggtg caatattagt t 151

<210> 317  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 317  
 agaactagtg gacctaataa aaatacctga aacatatatt ggcatttatc aatgggtcaa 60  
 atcttcattt atctctggcc ttaaccctgg ctctgagggc tgcggccagc agatcccagg 120  
 ccagggtctt gttcttgcca cacctgcttg a 151

<210> 318  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 318  
 actggtggga ggcgctgttt agttggctgt tttcagaggg gtctttcgga gggacctcct 60  
 gctgcaggct ggagtgtctt tattcctggc gggagaccgc acattccact gctgaggctg 120  
 tgggggcggg ttatcaggca gtgataaaca t 151

<210> 319  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 319  
 aactagtggg tccagagcta taggtacagt gtgatctcag ctttgcaaac acattttcta 60  
 catagatagt actaggtatt aatagatatg taaagaaaga aatcacacca ttaataatgg 120  
 taagattggg tttatgtgat tttagtgggt a 151

<210> 320  
 <211> 150  
 <212> DNA  
 <213> Homo sapien

<400> 320  
 aactagtggg tccactagtc cagtgtgggt gaattccatt gtgttggggg tctagatcgc 60  
 gagcggctgc cctttttttt tttttttttt ggggggaatt tttttttttt aatagttatt 120  
 gagtgttcta cagcttacag taaataacat 151

<210> 321  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 321  
agcaactttg tttttcatcc aggttatttt aggccttagga tttctcttca cactgcagtt 60  
taggggtggca ttgtaaccag ctatggcata ggtgttaacc aaaggctgag taaacatggg 120  
tgctctgag aaatcaaagt cttcatacac t 151

<210> 322  
<211> 151  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(151)  
<223> n = A,T,C or G

<400> 322  
atccagcatc ttctctgtt tcttgcttc cttttcttctc ttcttasatt ctgcttgagg 60  
tttgggcttg gtcagtttg caccagggtt ggagatgggtg acagtcttct ggcattcggc 120  
attgtgcagg gtcgcttca nacttccagt t 151

<210> 323  
<211> 151  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(151)  
<223> n = A,T,C or G

<400> 323  
tgaggacttg tktttttttt cttttttttt aatcctctta ckttgtaaatt atattgccta 60  
nagactcant tactaccag tttgtggtt twtgggagaa atgtaactgg acaggttagct 120  
gttcaatyaa aaagacactt ancccatgtg g 151

<210> 324  
<211> 461  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(461)  
<223> n = A,T,C or G

<400> 324  
acctgtgtgg aatttcagct ttctcatgc aaaaggattt tgtatccccg gctacttga 60  
agaagtggtc agctaaagga atccagggtt ttggttggtgac tgtaataacc tttgatgaaa 120  
agagttacta cgaatcccat cttgggtcca gctatatcac tgacagcatg gtagaagact 180  
gcgaacctca cttctagact ttcacgggtg gacgaaacgg gttcagaaac tgccaggggc 240  
ctcatacagg gatatacaaaa taccctttgt gctaccagg ccttggggaa tcaggtgact 300  
cacacaaatg caatagtttg tcaactgcatt tttacctgaa ccaaagctaa acccggtgtt 360  
gccaccatgc accatggcat gccagagttc aacactgttg ctcttgaaaa ttgggtctga 420

aaaaacgcac aagagcccct gccctgccct agctgangca c

461

<210> 325

<211> 400

<212> DNA

<213> Homo sapien

<400> 325

acactgtttc	catgttatgt	ttctacacat	tgctacctca	gtgctcctgg	aaacttagct	60
tttgatgtct	ccaagtagtc	caccttcatt	taactctttg	aaactgtatc	atctttgcc	120
agtaagagt	gtggcctatt	tcagctgctt	tgacaaaatg	actggctcct	gacttaacgt	180
tctataaatg	aatgtgctga	agcaaaagtgc	ccatggtggc	ggcgaagaag	agaaagatgt	240
gttttgtttt	ggactctctg	tggtcccttc	caatgctgtg	ggtttccaac	caggggaagg	300
gtcccttttg	cattgccaaag	tgccataacc	atgagcacta	cgctaccatg	gttctgcctc	360
ctggccaagc	aggctggttt	gcaagaatga	aatgaatgat			400

<210> 326

<211> 1215

<212> DNA

<213> Homo sapien

<400> 326

ggaggactgc	agcccgcact	cgcagccctg	gcaggcggca	ctgggtcatgg	aaaacgaatt	60
gttctgctcg	ggcgtcctgg	tgcatccgca	gtgggtgctg	tcagccgcac	actgtttcca	120
gaactectac	accatcgggc	tgggcctgca	cagtcttgag	gccgaccaag	agccagggag	180
ccagatggtg	gaggccagcc	tctccgtacg	gcacccagag	tacaacagac	ccttgctcgc	240
taacgacctc	atgctcatca	agttggacga	atccgtgtcc	gagtctgaca	ccatccggag	300
catcagcatt	gcttcgcagt	gccctaccgc	ggggaactct	tgccctcgttt	ctggctgggg	360
tctgctggcg	aacggcagaa	tgccctaccgt	gctgcagtgc	gtgaacgtgt	cggtggtgtc	420
tgaggaggtc	tgcaagtaagc	tctatgacct	gctgtaccac	cccagcatgt	tctgcgccgg	480
cggaggggcaa	gaccagaagg	actcctgcaa	cggtgactct	ggggggcccc	tgatctgcaa	540
cgggtacttg	cagggccttg	tgtctttcgg	aaaagccccg	tgtggccaag	ttggcgtgcc	600
aggtgtctac	accaacctct	gcaaattcac	tgagtggata	gagaaaaccg	tccaggccag	660
ttactctg	ggactgggaa	cccatgaaat	tgacccccaa	atacatcctg	cggaagggaat	720
tcaggaatat	ctgttcccag	cccctcctcc	ctcaggccca	ggagtccagg	ccccagccc	780
ctcctccctc	aaaccaagg	tacagatccc	cagccctcct	tccctcagac	ccaggagtcc	840
agacccccca	gcccctcctc	cctcagaccc	aggagtccag	cccctcctcc	ctcagaccca	900
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cctccctcag	actcagaggt	ccaagcccc	aaccctcct	tccccagacc	cagaggtcca	1020
ggtcccagcc	cctcctccct	cagacccagc	ggtccaatgc	cacctagact	ctccctgtac	1080
acagtgtccc	cttgtggcac	gttgacccaa	cettaccagt	tggtttttca	ttttttgtcc	1140
ctttccccta	gatccagaaa	taaagtctaa	gagaagcgca	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaaa					1215

<210> 327

<211> 220

<212> PRT

<213> Homo sapien

<400> 327

Glu	Asp	Cys	Ser	Pro	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu	Val	Met
1				5				10						15	
Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln	Trp	Val
			20					25					30		

Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly  
           35                  40                  45  
 Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu  
       50                  55                  60  
 Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala  
   65                  70                  75                  80  
 Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp  
           85                  90                  95  
 Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn  
          100                 105                 110  
 Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro  
       115                 120                 125  
 Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu Val Cys  
      130                 135                 140  
 Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly  
  145                 150                 155                 160  
 Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro  
          165                 170                 175  
 Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala  
          180                 185                 190  
 Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys  
      195                 200                 205  
 Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser  
      210                 215                 220

&lt;210&gt; 328

&lt;211&gt; 234

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 328

cgctcgtctc	tggtagctgc	agccaaatca	taaacggcga	ggactgcagc	ccgcactcgc	60
agccctggca	ggcggcactg	gtcatggaaa	acgaattgtt	ctgctcgggc	gtcctgggtgc	120
atccgcagtg	ggtgctgtca	gccacacact	gtttccagaa	ctcctacacc	atcgggctgg	180
gcctgcacag	tcttgaggcc	gaccaagagc	cagggagcca	gatgggtggag	gccca	234

&lt;210&gt; 329

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 329

Leu Val Ser Gly Ser Cys Ser Gln Ile Ile Asn Gly Glu Asp Cys Ser  
   1                  5                  10                 15  
 Pro His Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu  
      20                 25                 30  
 Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Thr  
      35                 40                 45  
 His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu  
      50                 55                 60  
 Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala  
   65                 70                 75

&lt;210&gt; 330

<211> 70  
 <212> DNA  
 <213> Homo sapien

<400> 330  
 cccaacacaa tggcccgatc ccatccctga ctccgccctc aggatcgctc gtctctggta 60  
 gctgcagcca 70

<210> 331  
 <211> 22  
 <212> PRT  
 <213> Homo sapien

<400> 331  
 Gln His Asn Gly Pro Ile Pro Ser Leu Thr Pro Pro Ser Gly Ser Leu  
 1 5 10 15  
 Val Ser Gly Ser Cys Ser  
 20

<210> 332  
 <211> 2507  
 <212> DNA  
 <213> Homo sapien

<400> 332  
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 tgcccttcct tctgtatatg gctgcccgc aaatcaggaa aatgctgtcc agtgggggtgt 120  
 gtacatcaac tgttcagctt cctgggaaag tagttgtggt cacaggagct aatacaggta 180  
 tcgggaagga gacagccaaa gagctggctc agagaggagc tcgagtatat ttagcttgcc 240  
 gggatgtgga aaagggggaa ttgggtggcca aagagatcca gaccacgaca gggaaccagc 300  
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 gcttcttagc tgaggaaaaag cacctccacg ttttgatcaa caatgcagga gtgatgatgt 420  
 gtccgtactc gaagacagca gatggctttg agatgcacat aggagtcaac cacttgggtc 480  
 acttctctct aacctatctg ctgctagaga aactaaagga atcagcccca tcaaggatag 540  
 taaatgtgtc ttccctcgca catcacctgg gaaggatcca cttccataac ctgcaggggc 600  
 agaaaattcta caatgcaggc ctggcctact gtcacagcaa gctagccaac atcctcttca 660  
 ccaggaact ggcccgagga ctaaaaggct ctggcggttac gacgtattct gtacaccctg 720  
 gcacagtcca atctgaactg gtccggcaact catctttcat gagatggatg tgggtggcttt 780  
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 ctgcccgaagc tcgtaatgag actatagcaa ggcggtgtg ggacgtcagt tgtgacctgc 960  
 tgggcctccc aatagactaa caggcagtg cagttggacc caagagaaga ctgcagcaga 1020  
 ctacacagta cttcttgtca aaatgattct cttcaagggt ttcaaaaacc tttagcacia 1080  
 agagagcaaa accttccagc cttgctgtct tgggtgtccag ttaaaaactca gtgtactgcc 1140  
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&lt;210&gt; 333

&lt;211&gt; 3030

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 333

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&lt;210&gt; 334

&lt;211&gt; 2417

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 334

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&lt;211&gt; 2984

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 335

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<213> Homo sapien

<400> 338

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<210> 339

<211> 318

<212> PRT

<213> Homo sapien

<400> 339

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Cys	Thr	Ser	Thr	Val	Gln	Leu	Pro	Gly	Lys	Val	Val	Val	Val	Thr	Gly	35	40	45	
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His	Ile	Gly	Val	Asn	His	Leu	Gly	His	Phe	Leu	Leu	Thr	His	Leu	Leu	145	150	155	160
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Ser	Leu	Ala	His	His	Leu	Gly	Arg	Ile	His	Phe	His	Asn	Leu	Gln	Gly	180	185	190	
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Val	Thr	Thr	Tyr	Ser	Val	His	Pro	Gly	Thr	Val	Gln	Ser	Glu	Leu	Val	225	230	235	240
Arg	His	Ser	Ser	Phe	Met	Arg	Trp	Met	Trp	Trp	Leu	Phe	Ser	Phe	Phe	245	250	255	
Ile	Lys	Thr	Pro	Gln	Gln	Gly	Ala	Gln	Thr	Ser	Leu	His	Cys	Ala	Leu	260	265	270	
Thr	Glu	Gly	Leu	Glu	Ile	Leu	Ser	Gly	Asn	His	Phe	Ser	Asp	Cys	His	275	280	285	
Val	Ala	Trp	Val	Ser	Ala	Gln	Ala	Arg	Asn	Glu	Thr	Ile	Ala	Arg	Arg	290	295	300	
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 <211> 483  
 <212> DNA  
 <213> Homo sapien

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 <211> 344  
 <212> DNA  
 <213> Homo sapien

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 <211> 592  
 <212> DNA  
 <213> Homo sapien

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<210> 343  
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 <212> DNA  
 <213> Homo sapien

<400> 343  
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 ottaatgttt gtggctttct ctccagctc tcttaggagg ggtaatggtg gagttggcat 120

```

cttgtaactc tcctttctcc tttcttcccc tttctctgcc cgcctttccc atcctgctgt    180
agacttcttg attgtcagtc tgtgtcacat ccagtgattg ttttggtttc tgttcccttt    240
ctgactgccc aaggggctca gaaccccagc aatcccttcc tttcactacc ttcttttttg    300
ggggtagttg gaagggactg aaattgtggg gggaaggtag gaggcacatc aataaagagg    360
aaaccaccaa gctgaaaaaa aa                                         382

```

```

<210> 344
<211> 536
<212> DNA
<213> Homo sapien

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```

<400> 344
ctgggcctga agctgtaggg taaatcagag gcaggcttct gagtgatgag agtcctgaga    60
caataggcca cataaacttg gctggatgga acctcacaat aagggtggtca cctcttgttt    120
gtttaggggg atgccaaagga taaggccagc tcagttatat gaagagaagc agaacaaaca    180
agtctttcag agaaatggat gcaatcagag tgggatcccg gtcacatcaa ggtcacactc    240
caccttcatg tgctgaatg gttgccagggt cagaaaaatc cacccttac gagtgcggt    300
tcgaccctat atccccgcc cgcgtccctt tctccataaa attcttctta gtagctatta    360
ccttcttatt atttgatcta gaaattgcc tctttttacc cctaccatga gccctacaaa    420
caactaacct gccactaata gttatgtcat ccctcttatt aatcatcatc ctagecctaa    480
gtctggccta tgagtgacta caaaaaggat tagactgagc cgaataacaa aaaaaa      536

```

```

<210> 345
<211> 251
<212> DNA
<213> Homo sapien

```

```

<400> 345
accttttgag gtctctctca ccacctccac agccaccgtc accgtgggat gtgctggatg    60
tgaatgaagc ccccatcttt gtgcctcctg aaaagagagt ggaagtgtcc gaggactttg    120
gcgtgggcca ggaaatcaca tcctacactg ccaggagcc agacacattt atggaacaga    180
aaataacata tcggatttgg agagacactg ccaactggct ggagattaat ccggacactg    240
gtgccatttc c                                         251

```

```

<210> 346
<211> 282
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(282)
<223> n = A,T,C or G

```

```

<400> 346
cgcgtctctg aactgtgat catgacaggg gttcaaacag aaagtgcctg ggccctcctt    60
ctaagtcttg ttacaaaaaa aaggaaaaag aaaagatctt ctcaattaca aattctggga    120
aggagacta tacctggctc ttgccctaag tgagaggtct tccctccgc accaaaaaat    180
agaaaggctt tctatttcac tggcccagggt agggggaagg agagtaactt tgagtctgtg    240
ggtctcattt cccaagggtgc cttcaatgct catnaaaacc aa                         282

```

```

<210> 347
<211> 201
<212> DNA

```

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(201)

<223> n = A,T,C or G

<400> 347

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taaataataac	ttttaaaana	ntactancag	cttttaccta	ngctcctaaa	tgcttgtaaa	120
tctgagactg	actggaccca	cccagaccca	gggcaaagat	acatgttacc	atatcatctt	180
tataaagaat	ttttttttgt	c				201

<210> 348

<211> 251

<212> DNA

<213> Homo sapien

<400> 348

ctgttaatca	caacatttgt	gcatcacttg	tgccaagtga	gaaaatgttc	taaaatcaca	60
agagagaaca	gtgccagaat	gaaactgacc	ctaagtccca	ggtgcccctg	ggcaggcaga	120
aggagacact	cccagcatgg	aggaggggtt	atcttttcat	cctaggtcag	gtctacaatg	180
ggggaagggt	ttattataga	actcccaaca	gcccacctca	ctcctgccac	ccacccgatg	240
gcctgcctc	c					251

<210> 349

<211> 251

<212> DNA

<213> Homo sapien

<400> 349

taaaaatcaa	gccattttaat	tgtatctttg	aaggtaaaca	atatatggga	gctggatcac	60
aacccttgag	gatgccagag	ctatgggtcc	agaacatggg	gtgggtattat	caacagagtt	120
cagaagggtc	tgaactctac	gtgttaccag	agaacataat	gcaattcatg	cattccactt	180
agcaattttg	taaaatacca	gaaacagacc	ccaagagtct	ttcaagatga	ggaaaattca	240
actcctgggt	t					251

<210> 350

<211> 908

<212> DNA

<213> Homo sapien

<400> 350

ctggacactt	tgcgagggct	tttgctggct	gctgctgctg	cccgtcatgc	tactcatcgt	60
agcccgcgccg	gtgaagctcg	ctgctttccc	tacctcctta	agtgactgcc	aaacgcccac	120
cggtctggaat	tgctctgggt	atgatgacag	agaaaatgat	ctcttcctct	tgacacccaa	180
cacctgtaaa	tttgatgggg	aatgtttaag	aattggagac	actgtgactt	gcgtctgtca	240
gttcaagtgc	aacaatgact	atgtgcctgt	gtgtgggtcc	aatggggaga	gctaccagaa	300
tgagtgttac	ctgcgacagg	ctgcatgcaa	acagcagagt	gagatacttg	tggtgtcaga	360
aggatcatgt	gccacagtcc	atgaaggctc	tggagaaact	agtcaaaaagg	agacatccac	420
ctgtgatatt	tgccagtttg	gtgcagaatg	tgacgaagat	gccgaggatg	tctggtgtgt	480
gtgtaatat	gactgttctc	aaaccaactt	caatccccctc	tgcgcttctg	atgggaaatc	540
ttatgataat	gcatgccaaa	tcaaagaagc	atcgtgtcag	aaacaggaga	aaattgaagt	600
catgtctttg	ggtcgatgtc	aagataacac	aactacaact	actaagtctg	aagatgggca	660

ttatgcaaga	acagattatg	cagagaatgc	taacaaatta	gaagaaagtg	ccagagaaca	720
ccacatacct	tgtccggaac	attacaatgg	cttctgcatg	catgggaagt	gtgagcattc	780
tatcaatatg	caggagccat	cttgcagggtg	tgatgctggt	tatactggac	aacactgtga	840
aaaaaaggac	tacagtgttc	tatacgttgt	tcccggctct	gtacgatttc	agtatgtctt	900
aatcgag						908

<210> 351  
 <211> 472  
 <212> DNA  
 <213> Homo sapien

<400> 351						
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gtcaaacctt	aatgccattg	ttattgtgaa	ttaggattaa	gtagtaattt	tcaaaattca	120
cattaacttg	attttaaaat	cagwtttgyg	agtcattttac	cacaagctaa	atgtgtacac	180
tatgataaaa	acaaccattg	tattcctgtt	tttctaaaca	gtcctaattt	ctaactgt	240
atatactctt	cgacatcaat	gaactttgtt	ttcttttact	ccagtaataa	agtaggcaca	300
gatctgtcca	caacaaactt	gccctctcat	gccttgctc	tcacatgct	ctgctccagg	360
tcagccccct	tttggcctgt	ttgttttgtc	aaaaacctaa	tctgcttctt	gcttttcttg	420
gtaatatata	tttagggaag	atgttgcttt	gccacacac	gaagcaaagt	aa	472

<210> 352  
 <211> 251  
 <212> DNA  
 <213> Homo sapien

<400> 352						
ctcaaagcta	atctctcggg	aatcaaacca	gaaaagggca	aggatcttag	gcatggtgga	60
tgtggataag	gccaggtcaa	tggtgcaag	catgcagaga	aagaggtaca	tcggagcgtg	120
caggctgcgt	tccgtcctta	cgatgaagac	cacgatgcag	tttccaaaca	ttgccactac	180
atacatggaa	aggaggggga	agccaaccca	gaaatgggct	ttctctaata	ctgggatacc	240
aataagcaca	a					251

<210> 353  
 <211> 436  
 <212> DNA  
 <213> Homo sapien

<400> 353						
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cacattatgg	tattattact	atactgatta	tatttatcat	gtgacttcta	attaraaaat	120
gtatccaaaa	gcaaaacagc	agatatacaa	aattaaagag	acagaagata	gacattaaca	180
gataaggcaa	cttatacat	gacaatocaa	atccaatata	tttaaacatt	tgggaaatga	240
gggggacaaa	tggaagccar	atcaaatttg	tgtaaaacta	ttcagtatgt	ttcccttgct	300
tcatgtctga	raaggctctc	ccttcaatgg	ggatgacaaa	ctccaaatgc	cacacaaatg	360
ttaacagaat	actagattca	cactggaacg	ggggtaaaaga	agaaattatt	ttctataaaa	420
gggctcctaa	tgtagt					436

<210> 354  
 <211> 854  
 <212> DNA  
 <213> Homo sapien

<400> 354

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caagtctgaa	accaaatacta	ggaaacatag	gaaacgagcc	aggcacaggg	ctgggtgggccc	120
atcaggggacc	accctttggg	ttgatatttt	gcttaatactg	catcttttga	gtaagatcat	180
ctggcagtag	aagctgttct	ccaggtacat	ttctctagct	catgtacaaa	aacatcctga	240
aggactttgt	caggtgcctt	gctaaaagcc	agatgcgttc	ggcacttcct	tggtctgagg	300
ttaattgcac	acctacaggc	actgggctca	tgctttcaag	tattttgtcc	tcacttttagg	360
gtgagtga	gatccccatt	ataggagcac	ttgggagaga	tcataataaa	gctgactcct	420
gagtacatgc	agtaatggg	tagatgtgtg	tggtgtgtct	tcattcctgc	aagggtgctt	480
gttagggagt	gtttccagga	ggaacaagtc	tgaaaccaat	catgaaataa	atggtaggtg	540
tgaactggaa	aactaattca	aaagagagat	cgtgatataca	gtgtgggtga	tacaccttgg	600
caatatggaa	ggctctaatt	tgcccatatt	tgaaataata	attcagcttt	ttgtaataca	660
aaataacaaa	ggattgagaa	tcattggtgtc	taatgtataa	aagaccaggg	aaacataaat	720
atatcaactg	cataaatgta	aaatgcattgt	gacccaagaa	ggccccaag	tggcagacaa	780
cattgtaccc	attttccctt	ccaaaatgtg	agcggcgggc	ctgctgcttt	caaggctgtc	840
acacgggatg	tcag					854

&lt;210&gt; 355

&lt;211&gt; 676

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 355

gaaattaagt	atgagctaaa	ttccctgtta	aaacctctag	gggtgacaga	tctcttcaac	60
caggtcaaa	ctgatcttct	tggaatgtca	ccaaccaagg	gcctatattt	atcaaaaagcc	120
atccacaagt	catacttga	tgctcagcga	gagggcacgg	aggcagcagc	agccactggg	180
gacagcatcg	ctgtaaaaag	cctaccaatg	agagctcagt	tcaaggcgaa	ccaccccttc	240
ctgttcttta	taaggcacac	tcataccaac	acgatcctat	tctgtggcaa	gcttgccctc	300
ccctaattcag	atgggggtga	gtaaggctca	gagttgcaga	tgaggtgcag	agacaatcct	360
gtgactttcc	cacggccaaa	aagctgttca	cacctcaogc	acctctgtgc	ctcagtttgc	420
tcactctgaa	aatagggtcta	ggattttctt	caaccatttc	atgagttgtg	aagctaaggc	480
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ggtgtctcat	ttgagtgtcg	tccagtgcac	tgatcaagtc	aatgagtaaa	attttaaggg	600
attagatttt	cttgacttgt	atgtatctgt	gagatcttga	ataagtgacc	tgacatctct	660
gcttaaagaa	aaccag					676

&lt;210&gt; 356

&lt;211&gt; 574

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 356

tttttttttt	tttttcagga	aaacattctc	ttacttttatt	tgcatctcag	caaaggttct	60
catgtggcac	ctgactggca	tcaaaccaaa	gttcgtaggc	caacaaagat	gggccactca	120
caagcttccc	atttgtagat	ctcagtgcct	atgagtatct	gacacctgtt	cctctcttca	180
gtctcttagg	gaggtctaaa	tctgtctcag	gtgtgctaag	agtgccagcc	caaggkggtc	240
aaaagtcac	aaaactgcag	tctttgctgg	gatagtaagc	caagcagtgc	ctggacagca	300
gagttctttt	cttgggcaac	agataaaccag	acaggactct	aatcgtgtct	ttattcaaca	360
ttcttctgtc	tctgcctaga	ctggaataaa	aagccaatct	ctctcgtggc	acagggaagg	420
agatacaagc	togtttacat	gtgatagatc	taacaaaggc	atctaccgaa	gtctgggtctg	480
gatagacggc	acagggagct	cttaggtcag	cgctgctggg	tggaggacat	tcctgagtcc	540
agctttgcag	cctttgtgca	acagtacttt	ccca			574

&lt;210&gt; 357

&lt;211&gt; 393

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 357

tttttttttt	tttttttttt	tttttttttt	tacagaatat	aratgcttta	tcactgkact	60
taatatggkg	kettgttcac	tatacttaaa	aatgcaccac	tcataaatat	ttaattcagc	120
aagccacaac	caaracttga	ttttatcaac	aaaaaccct	aaatataaac	ggsaaaaaag	180
atagatataa	ttattccagt	ttttttaaaa	cttaaaarat	attccattgc	cgaattaara	240
araarataag	tggttatatg	aaagaagggc	attcaagcac	actaaaraaa	cctgaggkaa	300
gcataatctg	tacaaaatta	aactgtcctt	tttggcattt	taacaaattt	gcaacgktct	360
tttttttctt	tttctgtttt	tttttttttt	tac			393

&lt;210&gt; 358

&lt;211&gt; 630

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 358

acagggtaaa	caggaggatc	cttgctctca	cggagcttac	attctagcag	gaggacaata	60
ttaatgttta	taggaaaatg	atgagtttat	gacaaaggaa	gtagatagt	ttttacaaga	120
gcatagagta	gggaagctaa	tccagcacag	ggaggtcaca	gagacatccc	taagggaagt	180
gagtttaaac	tgagagaagc	aagtgcctaa	actgaaggat	gtggtgaaga	agaagggaga	240
gtagaacaat	ttgggcagag	ggaaccctat	agaccctaag	gtgggaaggt	tcaaagaact	300
gaaagagagc	tagaacagct	ggagccgttc	tccggtgtaa	agaggagtca	aagagataag	360
attaaagatg	tgaagattaa	gatcttggtg	gcattcaggg	attggcactt	ctacaagaaa	420
tcactgaagg	gagtaatgtg	acattacttt	tcacttcagg	atggccattc	taactccagg	480
gggtagactg	gactaggtaa	gactggaggc	aggtagacct	cttctaaggc	ctgcgatagt	540
gaaagacaaa	aataagtggg	gaaattcagg	ggatagttaa	aatcagtagg	acttaatgag	600
caagccagag	gttcctccac	aacaaccagt				630

&lt;210&gt; 359

&lt;211&gt; 620

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 359

acagcattcc	aaaatataca	tctagagact	aarrgtaaat	gctctatagt	gaagaagtaa	60
taattaaaaa	atgctactaa	tatagaaaat	ttataatcag	aaaaataaat	attcagggag	120
ctcaccagaa	gaataaaagt	ctctgccagt	tattaaagga	ttactgctgg	tgaattaaat	180
atggcattcc	ccaagggaaa	tagagagatt	cttctggatt	atgttcaata	tttatttcac	240
aggattaact	gttttaggaa	cagatataaa	gcttcgccac	ggaagagatg	gacaaagcac	300
aaagacaaca	tgatacctta	ggaagcaaca	ctaccctttc	aggcataaaa	tttggagaaa	360
tgcaacatta	tgcttcattg	ataatatgta	gaaagaaggt	ctgatgaaaa	tgacatcctt	420
aatgtaagat	aacttttata	gaattctggg	tcaaataaaa	ttctttgaag	aaaacatcca	480
aatgtcattg	acttatcaaa	tactatcttg	gcataatacc	tatgaaggca	aaactaaaca	540
aacaaaaagc	tcacaccaaa	caaaaccatc	aacttatttt	gtattctata	acatacgaga	600
ctgtaaagat	gtgacagtgt					620

&lt;210&gt; 360

&lt;211&gt; 431

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 360



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aaaaaaaaa agccagaaca acatgtgata gataatatga ttggtgcac acttcagac      60
tgatgaatga tgaacgtgat ggactattgt atggagcaca ttttcagcaa gagggggaaa    120
tactcatcat ttttggccag cagttgtttg atcaccaaac atcatgccag aatactcagc    180
aaaccttctt agctcttgag aagtcaaagt ccgggggaat ttattcctgg caattttaat    240
tggactcctt atgtgagagc agcggctacc cagctggggt ggtggagcga acccgctact    300
agtggacatg cagtggcaga gtcctggta accacctaga ggaatacaca ggcacatgtg    360
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agattcttag t                                     431

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<210> 361

<211> 351

<212> DNA

<213> Homo sapien

<400> 361

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ttgggtcctc tgggtctcttg ccaagtttcc cagccactcg agggagaaat atcgggaggt    180
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caatcctgga ttcaatgtct gaaacctcgc tctctgcctg ctggacttct gaggcggtca    300
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<210> 362

<211> 463

<212> DNA

<213> Homo sapien

<400> 362

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ccccggtcac agaaatgacc aggttgggtg ttttcagggt ccagtgtctg gtcagcagct    180
cgtaaaggat ttccgcgtcc gtgtgcgagg acagacgtat atacttcctt ttcttccca    240
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agttccattt ctcactttgg ttgatctggg tgccttccat gtgctggctc tgggcatagc    360
cacacttgca cacattctcc ctgataagca cgatggtgtg gacaggaagg aaggatttca    420
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<210> 363

<211> 653

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(653)

<223> n = A,T,C or G

<400> 363

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tgaggagcac tacgcaagat gggactgcgt cctgggggtga gacatcctct ccttggagat    180
ctaacgaac ttctcaccta tgagttgtaa agcagaaata cctgnactac agacgagtgc    240
ccaacagcaa cccccggaa gtatgagttc ctctrgggcc tccgttcta ccatgagasc    300
tagcaagatg naagtgttga gantcattgc agaggttcag aaaagagacc cntcgtgact    360

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ggtctgcaca	gttcatggag	gctgcagatg	aggccttggg	tgctctggat	gctgctgcag	420
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cccgctccag	attccctcag	acctttgccg	gtcccattat	tggtctstggt	ggt	653

&lt;210&gt; 364

&lt;211&gt; 401

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 364

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catttcacac	ccttcatata	aattcactat	cttggtctga	ggcactccat	aaaatgtatc	300
acgtgcatag	taaatctth	tatttgctat	ggcgthgcac	tagaggactt	ggactgcaac	360
aagtggatgc	gcggaaaaatg	aaatcttctt	caatagccca	g		401

&lt;210&gt; 365

&lt;211&gt; 356

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 365

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gactgtcacg	atgtgtatag	tacagthtga	caagcctggg	tccatacaga	ccgctggaga	300
acattcgcca	atgtccctt	tgtagccagt	ttcttctctg	agctcccga	gagcag	356

&lt;210&gt; 366

&lt;211&gt; 1851

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 366

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<210> 367

<211> 668

<212> DNA

<213> Homo sapien

<400> 367

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accrtataag agcagtgcct tggccattaa tttatctttc attrtagaca gctagtggya 180
gagtgggtatt tccatactca tctggaatat ttggatcagt gccatgttcc agcaacatta 240
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<210> 368

<211> 1512

<212> DNA

<213> Homo sapien

<400> 368

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tgatctcggtg	cc					1512

&lt;210&gt; 369

&lt;211&gt; 1853

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 369

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&lt;210&gt; 370

<211> 2184  
 <212> DNA  
 <213> Homo sapien

<400> 370

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tttctctga gaactgcaac aataaataca aggatgctgg attttgtcaa atgccttttc      180
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ttattgactt gcctgtgtta gaccggaaga gctggggtgt ttctcaggag ccaccgtgtg      300
ctgcggcagc ttcgggataa cttgaggctg catcactggg gaagaaacac aytctgtcc      360
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gttgcaatga gccgagatcc gccactacac tccagcctgg gtgacagagc aagactctgt     2160
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<210> 371  
 <211> 1855  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1855)  
 <223> n = A,T,C or G

<400> 371

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&lt;210&gt; 372

&lt;211&gt; 1059

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 372

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tatttttcaa	tttttccctc	ctaggatttt	tttcccctaa	tgaatgtaag	atggcaaaat	900
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agagatcctg ctcctttggc aagttcctaa aaaacagtaa tagatacgag gtgatgcgcc 1020
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<210> 373
<211> 1155
<212> DNA
<213> Homo sapien

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<400> 373
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agcaacgtgg gcacttcttg agaccacgac gactctgcta tgaagacact caggagcaag 180
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gccagagagt atgctgtttc tagtcatcat catgtaattt gccagttact ttctgactac 1080
aaagaaaaac agatgctaaa aatctcttct gaaaacagca atccagaaaa tgtctcaaga 1140
accagaaata aataa 1155

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<210> 374
<211> 2000
<212> DNA
<213> Homo sapien

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<400> 374
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ctggatagat atggaaggac tgctctcata cttgctgtat gttgtggatc agcaagtata 960
gtcagccttc tacttgagca aaatattgat gtatcttctc aagatctatc tggacagacg 1020
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&lt;210&gt; 375

&lt;211&gt; 2040

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 375

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<210> 376
<211> 329
<212> PRT
<213> Homo sapien

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<400> 376
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          20          25          30
Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser
          35          40          45
Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg
          50          55          60
Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val
65          70          75          80
Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val
          85          90          95
Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr
          100          105          110
His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp
          115          120          125
Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp
          130          135          140
Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser
145          150          155          160
Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys
          165          170          175
Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala
          180          185          190
Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly
          195          200          205
Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr
          210          215          220
Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr
225          230          235          240
Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu
          245          250          255
Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys
          260          265          270
Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu
          275          280          285
Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu
          290          295          300
Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu
305          310          315          320
Ser Met Leu Phe Leu Val Ile Ile Met
          325

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<210> 377

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<211> 148  
 <212> PRT  
 <213> Homo sapien  
  
 <220>  
 <221> VARIANT  
 <222> (1)...(148)  
 <223> Xaa = Any Amino Acid

<400> 377

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Met Thr Xaa Pro Ser Trp Ser Pro Gly Thr Thr Ser Val Glu Lys Ile
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Trp Thr Ser Ser Thr Glu Leu Pro Trp Trp Gly Lys Val Pro Arg Lys
      20          25          30
Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Xaa Asp Lys
      35          40          45
Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu
      50          55          60
Val Val Lys Leu Xaa Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp
      65          70          75          80
Asn Lys Lys Arg Thr Ala Leu Xaa Lys Ala Val Gln Cys Gln Glu Asp
      85          90          95
Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro
      100          105          110
Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Xaa Tyr Asn Glu Asp
      115          120          125
Lys Leu Met Ala Lys Ala Leu Leu Tyr Gly Ala Asp Ile Glu Ser
      130          135          140
Lys Asn Lys Val
145
  
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<210> 378  
 <211> 1719  
 <212> PRT  
 <213> Homo sapien

<400> 378

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Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
 1          5          10          15
Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
      20          25          30
Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
      35          40          45
His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
      50          55          60
Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
      65          70          75          80
Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
      85          90          95
Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
      100          105          110
Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
      115          120          125
Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
  
```

	130					135				140					
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170						175
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
			180					185					190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
		195					200					205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
	210					215				220					
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
225					230					235					240
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
				245					250						255
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly
			260					265					270		
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
		275					280					285			
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr
	290					295					300				
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile
305					310					315					320
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu
				325					330					335	
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val
			340					345					350		
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile
		355					360					365			
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Asn	Val	Ser	Arg	Thr	Arg	Asn	Lys
	370					375					380				
Pro	Arg	Thr	His	Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser
385					390					395					400
Ser	Val	Lys	Lys	Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys
				405					410					415	
Cys	Arg	Cys	Phe	Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly
			420					425					430		
Thr	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys
		435					440					445			
Met	Gly	Lys	Trp	Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly
	450					455					460				
Lys	Ser	Asn	Val	Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys
465					470					475					480
Thr	Leu	Arg	Asn	Lys	Met	Gly	Lys	Trp	C						





1425                      1430                      1435                      1440  
 Ser Glu Asn Ser Gln Pro Glu Lys Met Ser Gln Glu Pro Glu Ile Asn  
                                  1445                      1450                      1455  
 Lys Asp Gly Asp Arg Glu Val Glu Glu Glu Met Lys Lys His Glu Ser  
                                  1460                      1465                      1470  
 Asn Asn Val Gly Leu Leu Glu Asn Leu Thr Asn Gly Val Thr Ala Gly  
                                  1475                      1480                      1485  
 Asn Gly Asp Asn Gly Leu Ile Pro Gln Arg Lys Ser Arg Thr Pro Glu  
                                  1490                      1495                      1500  
 Asn Gln Gln Phe Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys  
 1505                      1510                      1515                      1520  
 Glu Leu Val Ser Asp Tyr Lys Glu Lys Gln Met Pro Lys Tyr Ser Ser  
                                  1525                      1530                      1535  
 Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu  
                                  1540                      1545                      1550  
 Ser Gln Arg Leu Glu Gly Ser Glu Asn Gly Gln Pro Glu Lys Arg Ser  
                                  1555                      1560                      1565  
 Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Leu Glu Asn Phe  
                                  1570                      1575                      1580  
 Met Ala Ile Glu Glu Met Lys Lys His Gly Ser Thr His Val Gly Phe  
 1585                      1590                      1595                      1600  
 Pro Glu Asn Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly  
                                  1605                      1610                      1615  
 Leu Ile Pro Pro Arg Lys Ser Arg Thr Pro Glu Ser Gln Gln Phe Pro  
                                  1620                      1625                      1630  
 Asp Thr Glu Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln  
                                  1635                      1640                      1645  
 Lys Gln Phe Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile  
                                  1650                      1655                      1660  
 Leu Ile His Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser  
 1665                      1670                      1675                      1680  
 Glu Leu Ser Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn  
                                  1685                      1690                      1695  
 Ser Thr Leu Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr  
                                  1700                      1705                      1710  
 Met Lys His Gln Ser Gln Leu  
                                  1715

<210> 379

<211> 656

<212> PRT

<213> Homo sapien

<400> 379

Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys  
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 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe  
                                   20                                  25                                  30  
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp  
                                   35                                  40                                  45  
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp  
                                   50                                  55                                  60  
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val  
 65                                  70                                  75                                  80

Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn	
				85					90					95		
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	
			100					105					110			
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe	
		115					120					125				
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His	
	130					135					140					
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met	
145					150					155					160	
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala	
				165					170					175		
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu	
			180					185					190			
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr	
	195						200					205				
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met	
	210					215					220					
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn	
225					230					235					240	
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys	
				245					250					255		
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly	
			260					265					270			
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val	
	275						280					285				
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr	
	290					295					300					
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile	
305					310					315					320	
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu	
				325					330					335		
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val	
			340					345					350			
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile	
		355				360						365				
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu	
	370				375						380					
Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser	Gln	Pro	Glu	Lys	
385					390					395					400	
Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp	Arg	Glu	Val	Glu	
				405					410					415		
Glu	Glu	Met	Lys	His	Glu	Ser	Asn	Asn	Val	Gly	Leu	Leu	Glu	Asn		
			420				425					430				
Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn	Gly	Leu	Ile	Pro	
		435					440					445				
Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe	Pro	Asp	Asn	Glu	
	450					455					460					
Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser	Asp	Tyr	Lys	Glu	
465					470					475					480	
Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	
				485					490					495		
Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu	Glu	Gly	Ser	Glu	
			500					505					510			

Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys  
           515                  520          525  
 Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly  
       530                  535          540  
 Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser  
 545                  550          555          560  
 Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr  
           565                  570          575  
 His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln  
       580                  585          590  
 Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln  
       595                  600          605  
 Ile Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys  
       610                  615          620  
 Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile  
 625                  630          635          640  
 Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu  
           645                  650          655

<210> 380

<211> 671

<212> PRT

<213> Homo sapien

<400> 380

Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys  
 1          5          10          15  
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe  
       20          25          30  
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp  
       35          40          45  
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp  
       50          55          60  
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val  
 65          70          75          80  
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn  
       85          90          95  
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser  
       100          105          110  
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe  
       115          120          125  
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His  
       130          135          140  
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met  
 145          150          155          160  
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala  
       165          170          175  
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu  
       180          185          190  
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr  
       195          200          205  
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met  
       210          215          220  
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn





660

665

670

<210> 381  
 <211> 251  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 381

```

ggagaagcgt ctgctggggc aggaaggggt ttccctgccc tctcacctgt ccctcaccaa      60
ggtaacatgc ttcccctaag ggtatcccaa cccaggggcc tcaccatgac ctctgagggg      120
ccaatatccc aggagaagca ttggggaggt gggggcaggt gaaggacca ggactcacac      180
atcctgggcc tccaaggcag aggagaggggt cctcaagaag gtcaggagga aaatccgtaa      240
caagcagtca g                                     251

```

<210> 382  
 <211> 3279  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 382

```

cttcctgcag ccccatgct ggtgaggggc acgggcagga acagtggacc caacatggaa      60
atgtctggagg gtgtcaggaa gtgatcgggc tctggggcag ggaggagggg tggggagtgt      120
cactgggagg ggacatcctg cagaaggtag gagttagcaa acaccgctg caggggaggg      180
gagagccctg cggcacctgg gggagcagag ggagcagcac ctgcccaggc ctgggaggag      240
gggcctggag ggcgtaggga ggagcgaggg ggctgcatgg ctggagttag ggatcagggg      300
cagggcgcga gatggcctca cacaggggaag agagggcccc tectgcaggg cctcacctgg      360
gccacaggag gacactgctt ttctctgag gagttaggag ctgtggatgg tgctggacag      420
aagaaggaca gggcctggct cagggtgtca gaggctgtcg ctggcttccc tttgggatca      480
gactgcaggg agggagggcg gcagggttgt ggggggagtg acgatgagga tgacctgggg      540
gtggctccag gccctggccc tgccctgggc ctcaccagc ctccctcaca gtctcctggc      600
cctcagtctc tccccccac tccatcctcc atctggcctc agtgggtcat tctgatcact      660
gaactgacca taccagccc tgcccacggc cctccatggc tccccaatgc cctggagagg      720
ggacatctag tcagagagta gtctgaaga ggtggcctct gcgatgtgcc tgtgggggca      780
gcacctgca gatggtcccg gccctcatcc tgctgacctg tctgcaggga ctgtcctcct      840
ggaccttgcc ccttgtgcag gagctggacc ctgaagtccc ctcccatag gccaaagactg      900
gagccttggt cctctgtgtg gactccctgc ccatattctt gtgggagtgg gttctggaga      960
catttctgtc tgttctgtag agctgggaat tgctctcagt catctgcctg cgcggttctg      1020
agagatggag ttgectaggc agttattggg gccaatcttt ctactgtgt ctctcctcct      1080
ttacccttag ggtgattctg ggggtccact tgtctgtaat ggtgtgcttc aaggtatcac      1140
atcatggggc cctgagccat gtgccctgcc tgaaaagcct gctgtgtaca ccaaggtggg      1200
gcattaccgg aagtggatca aggacaccat cgcagccaac ccctgagtgc ccctgtccca      1260
cccctacctc tagtaaattt aagtcacact caggttctgg catcacttgg ctttctgga      1320
tgctggacac ctgaagcttg gaactcacct ggccgaagct cgagcctcct gagtccact      1380
gacctgtgct ttctggtgtg gagtccaggg ctgctaggaa aaggaatggg cagacacagg      1440
tgtatgccaa tgtttctgaa atgggtataa tttcgctctc tccttcggaa cactggctgt      1500
ctctgaagac ttctcgctca gtttcagtga ggacacacac aaagacgtgg gtgaccatgt      1560
tgtttgtggg gtgcagagat gggaggggtg gggccacccc tggaagagtg gacagtgaca      1620
caaggtggac actctctaca gatcactgag gataagctgg agccacaatg catgaggcac      1680
acacacagca aggttgacgc tgtaaacata gccacgctg tcctgggggc actgggaagc      1740
ctagataagg ccgtgagcag aaagaagggg aggatcctcc tatgttgttg aaggagggac      1800
tagggggaga aactgaaagc tgattaatta caggaggttt gttcagggtc cccaaaccac      1860
cgtcagatgt gatgatttcc tagcaggact tacagaaata aagagctatc atgctgtggt      1920
ttattatggg ttgttacatt gataggatac atactgaaat cagcaaacaa aacagatgta      1980
tagattagag tgtggagaaa acagaggaaa acttgcaagt acgaagactg gcaacttggc      2040

```



Ala Leu Glu Arg Gly His Leu Val Arg Glu  
145 150

<210> 384  
<211> 557  
<212> DNA  
<213> Homo sapiens

<400> 384  
ggatcctcta gagcgccgc ctactactac taaattcgcg gccgcgtcga cgaagaagag 60  
aaagatgtgt ttgtttttgg actctctgtg gtcccttcca atgctgtggg tttccaacca 120  
ggggaagggt ccccttttgca ttgccaagtg ccataaccat gagcactact ctaccatggg 180  
tctgcctcct ggccaagcag gctggtttgc aagaatgaaa tgaatgattc tacagctagg 240  
acttaacctt gaaatggaaa gtcttgcaat cccatttgca ggatccgtct gtgcacatgc 300  
ctctgtagag agcagcattc ccagggacct tggaaacagt tggcactgta aggtgcttgc 360  
tccccaaagac acatcctaaa aggtgtttgta atgggtgaaaa cgtcttccctt ctttattgcc 420  
ccttcttatt tatgtgaaca actgtttgtc tttttttgta tcttttttaa actgtaaaagt 480  
tcaattgtga aaatgaatat catgcaaata aattatgcga ttttttttcc aaagtaaaaa 540  
aaaaaaaaaa aaaaaaa 557

<210> 385  
<211> 337  
<212> DNA  
<213> Homo sapiens

<400> 385  
ttcccagggtg atgtgcgagg gaagacacat ttactatcct tgatggggct gattccttta 60  
gtttctctag cagcagatgg gttaggagga agtgacccaa gtggttgact cctatgtgca 120  
tctcaaagcc atctgctgtc ttogagtacg gacacatcat cactcctgca ttgttgatca 180  
aaacgtggag gtgcttttcc tcagetaaga agcccttagc aaaagctcga atagacttag 240  
tatcagacag gtccagtttc cgcaccaaca cctgctgggt ccctgtcgtg gtctggatct 300  
ctttggccac caattcccc ttttccacat cccggca 337

<210> 386  
<211> 300  
<212> DNA  
<213> Homo sapiens

<400> 386  
gggcccgtcta ccggcccagg cccgcctcg cgagtccctc tccccgggtg cctgcccga 60  
gcccgtcgg cccagagggg gggcgcgggg ctgcctctac cggtggcg ctgtaactca 120  
gcgaccttg cccgaaggct ctagcaagga ccaccgacc ccagccggg cggcgcggc 180  
gcggactttg cccggtgtgt ggggaggagc ggactgctg tccgaggac ggagcgaag 240  
atgttagcct tcgctgccag gaccgtggac cgatcccagg gctgtggtgt aacctcagcc 300

<210> 387  
<211> 537  
<212> DNA  
<213> Homo sapiens

<400> 387  
gggccgagtc gggcaaccaag ggactctttg caggcttcc tctcggatc atcaaggctg 60



<210> 391  
 <211> 325  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(325)  
 <223> n = A,T,C or G

<400> 391  
 tggagcaggt cccgaggcct ccctagagcc tggggccgac tctgtgncga tgcangcttt 60  
 ctctgcgccc cagcctggag ctgctcctgg catctaccaa caatcagncg aggcgagcag 120  
 tagccagggc actgctgcc aacagccagtc cnnataccat catgtnaccc ggtgngctct 180  
 naanttingat ntccanagcc ctacccatcn tagttctgct ctcccaccgg ntaccagccc 240  
 cactgcccag gaatcctaca gccagtaccc tgtcccgacg tctctaccta ccagtacgat 300  
 gagacctccg gctactacta tgacc 325

<210> 392  
 <211> 277  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(277)  
 <223> n = A,T,C or G

<400> 392  
 atattgttta actccttccct ttatatcttt taacattttc atggngaaaag gttcacatct 60  
 agtctcactt nggonagnn ctcctacttg agtctcttcc cgggcctggn ccagtnghaa 120  
 antaccanga accgncatgn ctttaanaacn nccgtggttn tgggttnntc aatgactgca 180  
 tgcagtgcac caccctgtcc actacgtgat gctgtaggat taaagtctca cagtgggcgg 240  
 ctgaggatac agcgccgcgt cctgtgttgc tggggaa 277

<210> 393  
 <211> 566  
 <212> DNA  
 <213> Homo sapiens

<400> 393  
 actagtccag tgtggtggaa ttccgcccgc cgtcgacgga caggtcagct gtctggctca 60  
 gtgatctaca ttctgaagtt gtctgaaaat gtcttcatga ttaaattcag cctaaacggt 120  
 ttgcccggaa cactgcagag acaatgctgt gagtttccaa ccttagccca tctgcgggca 180  
 gagaagggtct agtttgtcca tcagcattat catgatatca ggactgggta cttggttaag 240  
 gaggggtcta ggagatctgt cccctttaga gacaccttac ttataatgaa gtatttggga 300  
 ggggtggtttt caaaagtaga aatgtcctgt attccgatga tcctcctgta aacattttat 360  
 catttattaa tcctccctgc ctgtgtctat tattatattc atatctctac gctggaaact 420  
 ttctgcctca atgtttactg tgcctttgtt tttgctagtt tgtgttgttg aaaaaaaaaa 480  
 cattctctgc ctgagtttta atttttgtcc aaagttatct taatctatac aattaaaaagc 540  
 ttttcctat caaaaaaaaa aaaaaa 566

<210> 394

<211> 384  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(384)  
 <223> n = A,T,C or G

<400> 394  
 gaacatacat gtcccgccac ctgagctgca gtctgacatc atcgccatca cgggcctcgc 60  
 tgcaaattng gaccgggccca aggctggact gctggagcgt gtgaaggagc tacaggccna 120  
 gcaggaggac cgggctttta ggagttttta gctgagtgtc actgtagacc ccaaatacca 180  
 tccaagatt atcggggagaa agggggcagt aattacccaa atccggttgg agcatgacgt 240  
 gaacatccag ttctctgata aggacgatgg gaaccagccc caggaccaa ttaccatcac 300  
 agggtagcaa aagaacacag aagctgccag ggatgctata ctgagaattg tgggtgaact 360  
 tgagcagatg gtttctgagg acgt 384

<210> 395  
 <211> 399  
 <212> DNA  
 <213> Homo sapiens

<400> 395  
 ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat cagaagtgc 60  
 tctgaccttg gactccaaga cctacatcaa cagcctggct atattagatg atgagccagt 120  
 tatcagaggt ttcattcattg cggaaattgt ggagtctaag gaaatcatgg cctctgaagt 180  
 attcacgtct ttccagtacc ctgagttctc tatagattg cctaacacag gcagaattgg 240  
 ccagctactt gtctgcaatt gtatcttcaa gaataccctg gccatccctt tgactgacgt 300  
 caagttctct ttggaaagcc tgggcatctc ctactacag acctctgacc atgggacggt 360  
 gcagcctggt gagaccatcc aatcccaaat aaaatgcac 399

<210> 396  
 <211> 403  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(403)  
 <223> n = A,T,C or G

<400> 396  
 tggagttntc agtgcaaaca agccataaag cttcagtagc aaattactgt ctacacagaaa 60  
 gacattttca acttctgctc cagctgctga taaaacaaat catgtgttta gcttgactcc 120  
 agacaaggac aacctgttcc ttcataactc tctagagaaa aaaaggagtt gttagtagat 180  
 actaaaaaaa gtggatgaat aatctggata tttttcctaa aaagattcct tgaaacacat 240  
 taggaaaatg gagggcctta tgatcagaat gctagaatta gtccattgtg ctgaagcagg 300  
 gtttagggga gggagtggag gataaaagaa ggaaaaaag aagagtgaga aaacctattt 360  
 atcaaagcag gtgctatcac tcaatgttag gccctgctct ttt 403

<210> 397  
 <211> 100  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(100)

<223> n = A,T,C or G

<400> 397

```
actagtnacag tgtgggtggaa ttgcgggccc cgtcgaccta naanccatct ctatagcaaa 60
tccatccccg ctccctggttg gtnacagaat gactgacaaa 100
```

<210> 398

<211> 278

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(278)

<223> n = A,T,C or G

<400> 398

```
gcggccgcgt cgacagcagt tccgccagcg ctgcgccctg ggtggggatg tgctgcacgc 60
ccacctggac atctggaagt cagcggcctg gatgaaagag cggacttcac ctggggcgat 120
tcactactgt gcctcgacca gtgaggagag ctggaccgac agcagaggtg actcatcatg 180
ctccgggcag cccatccacc tgtggcagtt cctcaaggag ttgctactca agccccacag 240
ctatggccgc ttcattangt ggctcaacaa ggagaagg 278
```

<210> 399

<211> 298

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(298)

<223> n = A,T,C or G

<400> 399

```
acggaggtgg aggaagcgnc cctgggatcg anaggatggg tctgncatt gaccnctcn 60
ggggtgccng catggagcgc atgggcgcgg gcctgggcca cggcatggat cgcgtgggct 120
ccgagatcga gcgcatgggc ctggtcatgg accgcatggg ctccgtggag cgcgtgggct 180
ccggcattga gcgcatgggc ccgctgggcc tcgaccacat ggccctccanc attgancgca 240
tgggccagac catggagcgc attggctctg gcgtggagcn catgggtgcc ggcattggg 298
```

<210> 400

<211> 548

<212> DNA

<213> Homo sapiens

<400> 400

```
acatcaacta cttcctcatt ttaaggtatg gcagttccct tcatccctt ttcctgcctt 60
gtacatgtac atgtatgaaa ttctctctc ttaccgaact ctctccacac atcacaaggt 120
caaagaacca cacgcttaga agggtaagag ggcaccctat gaaatgaaat ggtgatttct 180
```



```

tgagtctctt ttttccacgt ttaagggggc atggcaggac ttagagttgc gagttaagac 240
tgcagagggc tagagaatta tttcatacag gctttgaggc caccatgtc acttatcccg 300
tataccctct caccatcccc ttgtctactc tgatgcccc aagatgcaac tgggcagcta 360
gttggcccca taattctggg cctttgttgt ttgttttaac tacttgggca tcccaggaag 420
ctttccagtg atctctacc atgggcccc ctctgggat caagcccctc ccaggccctg 480
tccccagccc ctctgcccc agcccacccg cttgccttgg tgctcagccc tcccattggg 540
agcaggtt 548

```

```

<210> 401
<211> 355
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(355)
<223> n = A,T,C or G

```

```

<400> 401
actgtttcca tgttatgttt ctacacattg ctacctcagt gctcctggaa acttagcttt 60
tgatgtctcc aagtagtcca ccttcattta actctttgaa actgtatcat ctttgccaag 120
taagagtggg ggcctatttc agctgctttg acaaaatgac tggctcctga cttaacgttc 180
tataaatgaa tgtgctgaag caaagtgcc atgggtggcg cgaagaagan aaagatgtgt 240
tttgttttgg actctctgtg gtcccttcca atgctgnggg tttccaacca ggggaagggt 300
cccttttgc tttgccaagt ccataaccat gagcactact ctaccatggn tctgc 355

```

```

<210> 402
<211> 407
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(407)
<223> n = A,T,C or G

```

```

<400> 402
atggggcaag ctggataaag aaccaagacc cactggagta tgctgtcttc aagaaaccca 60
tctcacatgc ggtggcatac ataggctcaa aataaaggaa tggagaaaaa tatttcaagc 120
aaatggaaaa cagaaaaaag cagggtgttg actcctactt tctgacaaaa cagactatgc 180
gaataaagat aaaaaagaga aggacattac aaagggtggc ctgacctttg ataaatctca 240
ttgcttgata ccaacctggg ctgttttaac tgcccaaacc aaaaggataa tttgctgagg 300
ttgtggagct tctccccctg agagagtccc tgatctccca aaatttggtt gagatgtaag 360
gntgattttg ctgacaactc cttttctgaa gttttactca tttccaa 407

```

```

<210> 403
<211> 303
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(303)
<223> n = A,T,C or G

```

```

<400> 403
cagtatttat agcnaactg aaaagctagt agcaggcaag tctcaaatcc aggcaccaaa 60
tcctaagcaa gagccatggc atggtgaaaa tgcaaaagga gagtctggcc aatctacaaa 120
tagagaacaa gacctactca gtcatagaaca aaaaggcaga caccaacatg gatctcatgg 180
gggattggat attgtaatta tagagcagga agatgacagt gatcgtcatt tggcacaaca 240
tcttaacaac gaccgaaacc cattattttac ataaacctcc attcggtaac catgttgaaa 300
gga 303

```

```

<210> 404
<211> 225
<212> DNA
<213> Homo sapiens

```

```

<400> 404
aagtgttaact tttaaaaatt tagtggattt tgaaaattct tagaggaaaag taaaggaaaa 60
attgttaatg cactcattta cttttacatg gtgaaagtgc tctcttgatc ctacaaacag 120
acattttcca ctctgtgttc catagtgtgtt aagtgtatca gatgtgttgg gcatgtgaat 180
ctccaagtgc ctgtgttaata aataaagtat ctttatttca ttcatt 225

```

```

<210> 405
<211> 334
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(334)
<223> n = A,T,C or G

```

```

<400> 405
gagctgttat actgtgagtt ctactaggaa atcatcaaatt ctgaggggtg tctggaggac 60
ttcaatacac ctccccccat agtgaatcag ctccaggagg gtccagtcct tctccttact 120
tcatccccat cccatgccaa aggaagaccc tccctccttg gctcacagcc ttctctaggc 180
ttccagtgct ctccaggaca gagtgggtta tgttttcagc tccatccttg ctgtgagtgt 240
ctgggtgcgtg tgtgcctcca gcttctgctc agtgcctcat ggacagtgtc cagcccatgt 300
cactctccac tctctcanng tggatcccac ccct 334

```

```

<210> 406
<211> 216
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

```

```

<400> 406
tttcatacct aatgaggagg ttganatnac atnnaaccag gaaatgcatg gatctcaang 60
gaaacaaaca cccaataaac tcggagtggc agactgacaa ctgtgagaca tgcacttgct 120
acnaaacaca aatttnatgt tgcacccttg tttctacacc tgtgggttat gacaaagaca 180
actgccaaag aatnttcaag aaggaggact gccant 216

```

<210> 407  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<400> 407  
 gctgacttgc tagtatcatc tgcattcatt gaagcacaag aacttcatgc ctgactcat 60  
 gtaaatgcaa taggattaaa aaataaattt gatatcacat ggaaacagac aaaaaatatt 120  
 gtacaacatt gcacccagtg tcagattcta cacctggcca ctcaggaagc aagagttaat 180  
 ccagagggtc tatgtcctaa tgtgttatgg caaatggatg tcatgcacgt accttcattt 240  
 ggaaaattgt catttgtcca tgtgacagtt gatacttatt cacatttcat atgggcaacc 300  
 tgccagacag gagaaagtct tcccatgtta aaagacattt attatcttgt tttcctgtca 360  
 tgggagttcc agaaaaagtt aaaacagaca atggggccagg ttctgtagta aag 413

<210> 408  
 <211> 183  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(183)  
 <223> n = A,T,C or G

<400> 408  
 ggagctngcc ctcaattcct ccatntotat gttancatat ttaatgtctt ttgnnattaa 60  
 tnccttaacta gttaatcctt aaagggctan ntaatcctta actagtcctt ccattgtgag 120  
 cattatcctt ccagtattcn ccttctnttt tattttactcc ttcttggtta cccatgtact 180  
 ntt 183

<210> 409  
 <211> 250  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(250)  
 <223> n = A,T,C or G

<400> 409  
 cccacgcatg ataagctctt tatttctgta agtcttgcta ggaaatcatc aaatctgacg 60  
 gtggtttggg ggacctgaac aaacctcttg taattaatca gctttcagtt tctcccccta 120  
 gtccctcctt caacaacata ggaggatcct ccccttcttt ctgctcacgg ccttatctag 180  
 gcttccagtg gccccagga cagcgtgggc tatgtttaca gcgntcctt gctggggggg 240  
 ggccntatgc 250

<210> 410  
 <211> 306  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> (1)...(306)

<223> n = A,T,C or G

<400> 410

```

ggctggtttg caagaatgaa atgaatgatt ctacagctag gacttaacct tgaaatggaa 60
agtcttgcaa tcccatTTTgc aggatccgTc tgtgcacatg cctctgtaga gagcagcatt 120
cccagggacc ttggaaacag ttggcactgt aaggTgcttg ctccccaaga cacatcctaa 180
aaggTgTTgt aatggTgaaa accgcttccT tctttattgc cccttcttat ttatgtgaac 240
nactggtTgg ctttttttgn atctttttta aactggaaag ttcaattgng aaaatgaata 300
tcntgc                                           306

```

<210> 411

<211> 261

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(261)

<223> n = A,T,C or G

<400> 411

```

agagatattn cttaggtnaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaatgtc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
cttctctcaa gngaggcaa a                                           261

```

<210> 412

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(241)

<223> n = A,T,C or G

<400> 412

```

gttcaatgtt acctgacatt totacaacac ccactcacc gatgtattcg ttgccagtg 60
ggaacatacc agcctgaatt tggaaaaaat aattgtgttt cttgccagc aaatactacg 120
actgactttg atggctccac aaacataacc cagtgtaaaa acagaagatg tggaggggag 180
ctgggagatt tcactgggta cattgaattc caaaactacc cangcaatta ccagccaac 240
a                                           241

```

<210> 413

<211> 231

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(231)

<223> n = A,T,C or G

<400> 413  
aactcttaca atccaagtga ctcatctgtg tgcttgaatc ctttccactg tctcatctcc 60  
ctcatccaag tttctagtag ctctctcttg ttgtgaagga taatcaaact gaacaacaaa 120  
aagtttactc tcctcatttg gaacctaaaa actctcttct tcctgggtct gagggctcca 180  
agaatccttg aatcanttct cagatcattg gggacaccan atcaggaacc t 231

<210> 414  
<211> 234  
<212> DNA  
<213> Homo sapiens

<400> 414  
actgtccatg aagcactgag cagaagctgg aggcacaacg caccagacac tcacagcaag 60  
gatggagctg aaaacataac ccactctgtc ctggaggcac tgggaagcct agagaaggct 120  
gtgagccaag gagggagggt cttccttttg catgggatgg ggatgaagta aggagaggga 180  
ctggaccccc tggaagctga ttcactatgg ggggaggtgt attgaagtcc tcca 234

<210> 415  
<211> 217  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(217)  
<223> n = A,T,C or G

<400> 415  
gcataggatt aagactgagt atcttttcta cattctttta acttttctaag gggcacttct 60  
caaaacacag accaggtagc aaatctccac tgctctaagg ntctcaccac cacttttctca 120  
cacctagcaa tagtagaatt cagtctact tctgaggcca gaagaatggg tcagaaaaat 180  
antggattat aaaaaataac aattaagaaa aataatc 217

<210> 416  
<211> 213  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(213)  
<223> n = A,T,C or G

<400> 416  
atgcatatnt aaagganact gcctcgcttt tagaagacat ctggnctgct ctctgcatga 60  
ggcacagcag taaagctctt tgattcccag aatcaagaac tctccccttc agactattac 120  
cgaatgcaag gtggttaatt gaaggccact aattgatgct caaatagaag gatattgact 180  
atattggaac agatggagtc tctactacaa aag 213

<210> 417  
<211> 303  
<212> DNA  
<213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(303)  
 <223> n = A,T,C or G

<400> 417  
 nagtcttcag gcccatcagg gaagttcaca ctggagagaa gtcatacata tgtactgtat 60  
 gtgggaaagg ctttactctg agttcaaate ttcaagccca tcagagagtc cacactggag 120  
 agaagccata caaatgcaat gagtgtggga agagcttcag gagggattcc cattatcaag 180  
 ttcatctagt ggtccacaca ggagagaaac cctataaatg tgagatatgt gggaagggct 240  
 tcantcaaag ttcgatatctt caaatccatc ngaaggncca cagtatanan aaacctttta 300  
 agt 303

<210> 418  
 <211> 328  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(328)  
 <223> n = A,T,C or G

<400> 418  
 tttttggcgg tgggtggggca gggacggggac angagtctca ctctgttgcc caggctggag 60  
 tgcacaggca tgatctcggc tcactacaac cctgcctcc catgtccaag cgattcttgt 120  
 gcctcagcct tcctgttagc tagaattaca ggcacatgcc accacaccca gctagttttt 180  
 gtatttttag tagagacagg gtttcacat gttggccagg ctggtctcaa actcctnacc 240  
 tcagnggtca ggctgggtct aaactcctga cctcaagtga tctgccacc tcagcctccc 300  
 aaagtgtan gattacaggc cgtgagcc 328

<210> 419  
 <211> 389  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(389)  
 <223> n = A,T,C or G

<400> 419  
 cctcctcaag acggcctgtg gtcgcctcc cggcaaccaa gaagcctgca gtgccatattg 60  
 acccctgagc catggactgg agcctgaaag gcagcgtaca cctgctcct gatcttgtgt 120  
 cttgtttcct ctctgtggct ccattcatag cacagttgtt gcactgaggc ttgtgcaggc 180  
 cgagcaaggc caagctggct caaagagcaa ccagtcaact ctgccacggc gtgccaggca 240  
 ccggttctcc agccaccaac ctactcgtc cccgcaaagt gcacatcagt tcttctaccc 300  
 taaaggtagg accaaagggc atctgctttt ctgaagtcct ctgctctatc agccatcacg 360  
 tggcagccac tnggctgtg tgcagcgg 389

<210> 420  
 <211> 408  
 <212> DNA

<213> Homo sapiens

<400> 420

```
gttcctccta actcctgcca gaaacagctc tcctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgacttttgg gtttcggcat ggagaccgaa 180
gtccattga cacttttccc actgacccca taaaggaatc ctcattggcca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg aagtgcctatg acaaacctgg caagccccg 408
```

<210> 421

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(352)

<223> n = A,T,C or G

<400> 421

```
gctcaaaaat ctttttactg atnggcatgg ctacacaatc attgactatt acggaggcca 60
gaggagaatg aggcctggcc tgggagccct gtgcctacta naagcacatt agattatcca 120
ttcactgaca gaacagggtc tttttgggtc cttcttctcc accacnatac attgcagtc 180
ctccttcttg aagattcttt ggcagttgtc tttgtcataa cccacaggtg tagaaacaag 240
ggtgcaacat gaaatttctg tttcgtagca agtgcatgtc tcacaagttg gcangtctgc 300
cactccgagt ttattgggtg tttgtttcct ttgagatcca tgcatttctc gg 352
```

<210> 422

<211> 337

<212> DNA

<213> Homo sapiens

<400> 422

```
atgccaccat gctggcaatg cagcggggcg tcgaaggcct gcataatccag cccaagctgg 60
cgatgatcga cggcaaccgt tgcccgaagt tgccgatgcc agccgaagcg gtggtcaagg 120
gcgatagcaa ggtgcggcg atcgggcg cgtcaatcct ggccaaggct agccgtgatc 180
gtgaaatggc agctgtcgaa ttgatctacc cgggttatgg catcgggcgg cataaaggct 240
atccgacacc ggtgcacctg gaagccttgc agcggctggg gccgacgccg attcaccgac 300
gcttcttccg ccggtacggc tggcctatga aaattat 337
```

<210> 423

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(310)

<223> n = A,T,C or G

<400> 423

```
gctcaaaaat ctttttactg atatggcatg gctacacaat cattgactat tagaggccag 60
```

```
<210> 424
<211> 370
<212> DNA
<213> Homo sapiens
```

<400>	424					
gctcaaaaat	ctttttactg	ataggcatgg	ctacacaatc	attgactatt	agaggccaga	60
ggagaatgag	gcctggcctg	ggagccctgt	gcctactaga	agcacattag	attatccatt	120
cactgacaga	acagggtcttt	tttgggtcct	tcttctccac	cacgatatac	ttgcagtcct	180
ccttcttgaa	gattcttttg	cagttgtctt	tgtcataacc	cacagggtga	gaaacatcct	240
ggttgaatct	cctggaactc	cctcattagg	tatgaaatag	catgatgcat	tgcataaagt	300
cacgaagggtg	gcaaagatca	caacgctgcc	cagganaaca	ttcattgtga	taagcaggac	360
tccgtcgaag						370

```
<210> 425
<211> 216
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G
```

<400>	425						
aattgctatn	ntttatttttg	ccactcaaaa	taattaccaa	aaaaaaaaa	tnttaaataga	60	
taacaacnca	acatcaaggg	aaananaaca	ggaatggntg	actntgcata	aatnggccga	120	
anattatcca	ttatnttaag	gggttgacttc	aggntacagc	acacagacaa	acatgcccag	180	
gagntntca	ggaccgctcg	atgtntttntg	aggagc			216	

```
<210> 426
<211> 596
<212> DNA
<213> Homo sapiens
```

```
<400> 426
cttccagtga ggataaccct gttgccccgg gccgaggttc tccattaggc tctgattgat 60
tggcagtcag tgatggaagg gtgttctgat cattccgact gccccagggg tgcgtggcca 120
gctctctgtt ttgctgagtt ggcagtagga cctaatttgt taattaagag tagatggtga 180
gctgtccttg tattttgatt aacctaatgg ccttcccagc acgactcgga ttcagctgga 240
gacatcacgg caacttttaa tgaaatgatt tgaagggccca ttaagaggca cttcccggtta 300
ttaggcagtt catctgcact gataacttct tggcagctga gctggtcgga gctgtggccc 360
aaacgcacac ttggcttttg gttttgagat acaactctta atcttttaag catgcttgaq 420
```



```
<210> 427
<211> 107
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1)...(107)  
<223> n = A,T,C or G
```

```
<210> 428
<211> 38
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(38)
<223> n = A,T,C or G
```

```
<210> 429
<211> 544
<212> DNA
<213> Homo sapiens
```

```
<210> 430
<211> 507
<212> DNA
<213> Homo sapiens
```

 $\langle 220 \rangle$

<223> n = A, T, C or G

cttatcncaa	tggggctccc	aaacttggt	gtgcagtga	aactccgggg	gaattttgaa	60
gaacactgac	accatcttc	caccccgaca	ctctgattta	attgggtgc	agtgagaaca	120
gagcatcaat	ttaaaaagct	gcccagaatg	ttntcctggg	cagcgttgtg	atctttgccc	180
ccttcgtgac	tttatgcaat	gcacatgct	atttcatacc	taatgaggga	gttcaggag	240
attcaaccag	gatgtttcta	cncctgtggg	ttatgacaaa	gacaactgcc	aaagaatntt	300
caagaaggag	gactgcaagt	atatcgtggt	ggagaagaag	gacccaaaaa	agacctgttc	360
tgtcagtga	tggataatct	aatgtgcttc	tagtaggcac	agggtccca	ggccaggcct	420
cattctcttc	tggcctctaa	tagtcaatga	ttgtgtagcc	atgcctatca	gtaaaaagat	480
ttttgagcaa	aaaaaaaaaa	aaaaaaa				507

<213> Homo sapiens

$\langle 223 \rangle$  n = A, T, C or G

gaaaattcag	aatggataaa	aacaaatgaa	gtacaaaata	tttcagattt	acatagcgat	60
aaacaagaaa	gcatttatca	ggaggactta	caaatggaag	tacactctan	aaccatcatc	120
tatcatggct	aaatgtgaga	ttagcacagc	tgtattattt	gtacattgca	aacacctaga	180
aagagatggg	aaacaaaatc	ccaggagttt	tgtgtgtgga	gtcctgggtt	ttccaacaga	240
catcattcca	gcattctgag	attaggngna	ttggggatca	ttctggagtt	ggaatgttca	300
acaaaagtga	tgttgtttag	taaaattgtac	aacttctgga	tctattgcaga	cattgaaggt	360
gcaaatgagtc	tgcctttttac	tctgctgttt	ct			392

<213> Homo sapiens

$\langle 223 \rangle$  n = A, T, C or G

ggtatccnta	cataatcaaa	tatatgtgta	gtacatgttt	tcattggngt	agattaccac	60
aaatgcaagg	caacatgtgt	agatctcttg	tcttattctt	ttgtctataa	tactgtattg	120
ngtagtccaa	gctctcgna	gtccagccac	tgngaaacat	gtcccttta	gattaaactc	180
gtggacnctn	ttgttgnatt	gtctgaactg	tagngccctg	tattttgott	ctgtctgnga	240
attctgttgc	ttctggggca	tttccctgng	atgcagagga	ccaccacaca	gatgacagca	300
atctgaattg	ntccaatcac	agctgcgatt	aagacatact	gaaatcgtac	aggaccggga	360
acaacgtata	gaacactgga	gtcccttt				387

<210> 433

```
<220>  
<221> misc_feature  
<222> (1)...(281)  
<223> n = A,T,C or G
```

```
<210> 434
<211> 484
<212> DNA
<213> Homo sapiens
```

```
<210> 435
<211> 424
<212> DNA
<213> Homo sapiens
```

```
<210> 436
<211> 667
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
```

<222> (1)...(667)

<223> n = A,T,C or G

<400> 436

```
accttgggaa nactctcaca atataaaggg tcgtagactt tactccaaat tccaaaaagg 60
tcctggccat gtaatcctga aagttttccc aaggtagcta taaaatcctt ataaggggtgc 120
agcctcttct ggaattcctc tgattttcaaa gtctcactct caagttcttg aaaacgaggg 180
cagttcctga aaggcaggta tagcaactga tcttcagaaa gaggaactgt gtgcaccggg 240
atgggctgcc agagtaggat aggattccag atgctgacac cttctggggg aaacagggct 300
gccaggtttg tcatagcact catcaaagtc cgggtcaacgt ctgtgcttcg aatataaacc 360
tgttcatgtt tataggactc attcaagaat tttctatata tctttcttat atactctcca 420
agttcataat gctgctccat gccagctgg gtgagttggc caaatccttg tggccatgag 480
gattccttta tggggtcagt gggaaagggt tcaatgggac ttcggctctc atgccgaaac 540
accaaagtca caaacttcaa ctcttggt agtacacttc ggtctagcca gaaaaaagc 600
agaaacaaga agccaaggct aaggcttgct gcctggccag gaggaggggt gcagctctca 660
tgttgag 667
```

<210> 437

<211> 693

<212> DNA

<213> Homo sapiens

<400> 437

```
ctacgtctca accctcattt ttaggtaagg aatcttaagt ccaaagatat taagtgactc 60
acacagccag gtaaggaaaag ctggattggc aactaggac tctaccatac cgggttttgt 120
taaagctcag gttaggaggc tgataagctt ggaaggaaact tcagacagct ttttcagatc 180
ataaaaagata attcttagcc catgtttctt tccagagcag acctgaaatg acagcacagc 240
aggtactcct ctattttcac ccctcttgct tctactctct ggcagtcaga cctgtgggag 300
gccatgggag aaagcagctc tctggatgtt tgtacagatc atggactatt ctctgtggac 360
catttctcca ggttacccta ggtgtcacta ttggggggac agccagcatc tttagctttc 420
atttgagttt ctgtctgtct tcagtagagg aaacttttgc tcttcacact tcacatctga 480
acacctaaact gctgttgctc ctgagggtgt gaaagacaga tatagagctt acagtattta 540
tcctatttct aggcactgag ggctgtgggg taccttgtgg tgccaaaaca gatcctgttt 600
taaggacatg ttgcttcaga gatgtctgta actatctggg ggctctgttg gctctttacc 660
ctgcatcatg tgctctcttg gctgaaaatg acc 693
```

<210> 438

<211> 360

<212> DNA

<213> Homo sapiens

<400> 438

```
ctgcttatca caatgaatgt tctcctgggc agcgttgtga tctttgccac cttcgtgact 60
ttatgcaatg catcatgcta tttcatacct aatgagggag ttccaggaga ttcaaccagg 120
atgtttctac acctgtgggt tatgacaaag acaactgcc aagaatcttc aagaaggagg 180
actgcaagta tatctgggtg agaagaagga cccaaaaaag acctgttctg tcagtgaatg 240
gataatctaa tgtgcttcta gtaggcacag ggctcccagg ccaggcctca ttctcctctg 300
gcctctaata gtcaataatt gtgtagccat gcctatcagt aaaaagattt ttgagcaaac 360
```

<210> 439

<211> 431

<212> DNA

<213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(431)  
 <223> n = A,T,C or G

<400> 439  
 gttcctnnta actcctgcc aaaacagctc tctcaacat gagagctgca cccctcctcc 60  
 tggccagggc agcaagcctt agccttggt tcttggttct gctttttttc tggctagacc 120  
 gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180  
 gtccattga cacctttccc actgaccca taaaggaatc ctcattggcca caaggatttg 240  
 gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300  
 gatatagaaa attcctgaat ggtcctata aacatgaaca ggtttatatt cgaagcacag 360  
 acgttgaccg gactttgatg agtgctatga caaacctggc agcccgctga cgcggccgcg 420  
 aatttagtag t 431

<210> 440  
 <211> 523  
 <212> DNA  
 <213> Homo sapiens

<400> 440  
 agagataaag cttaggtcaa agttcataga gttcccatga actatatgac tggccacaca 60  
 ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120  
 tttaaatgtc tgaaatggaa cagatttcaa aaaaaaacc cacaatctag ggtgggaaca 180  
 aggaaggaag gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240  
 cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300  
 actggaaaac tgctactatc tgtttttata ttctgttaa aatatatgag gctacagaac 360  
 taaaaattaa aacctctttg tgtcccttgg tcttgaaca tttatgttcc ttttaaagaa 420  
 acaaaaatca aactttacag aaagatttga tgtatgtaac acatatagca gctcttgaag 480  
 tatatatatc atagcaaata agtcatctga tgagaacaag cta 523

<210> 441  
 <211> 430  
 <212> DNA  
 <213> Homo sapiens

<400> 441  
 gttcctccta actcctgcc aaaacagctc tctcaacat gagagctgca cccctcctcc 60  
 tggccagggc agcaagcctt agccttggt tcttggttct gctttttttc tggctagacc 120  
 gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180  
 gtccattga cacctttccc actgaccca taaaggaatc ctcattggcca caaggatttg 240  
 gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300  
 gatatagaaa attcctgaat ggtcctata aacatgaaca ggtttatatt cgaagcacag 360  
 acgttgaccg gactttgatg agtgctatga caaacctggc agcccgctga cgcggccgcg 420  
 aatttagtag 430

<210> 442  
 <211> 362  
 <212> DNA  
 <213> Homo sapiens

<400> 442  
 ctaaggaatt agtaggttc ccatcacttg ttggagtggt gctattctaa aagattttga 60  
 tttcctggaa tgacaattat attttaactt tgggtggggga aagagttata ggaccacagt 120

```

cttcacttct gatacttgta aattaatctt ttattgcact tgttttgacc attaatgctat 180
atgttttagaa atgggtcattt tacggaaaaa ttagaaaaat tctgataata gtgcagaata 240
aatgaattaa tgttttactt aatttatatt gaactgtcaa tgacaaataa aaatttctttt 300
tgattatttt ttgttttcat ttaccagaat aaaaactaag aattaaaagt ttgattacag 360
tc 362

```

```

<210> 443
<211> 624
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(624)
<223> n = A,T,C or G

```

```

<400> 443
tttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag 60
ttgaaagaat taaattcaga ggaggggaga gaaagagtag tcagtaggga ctgagcacta 120
aatgcttatt ttaaaagaaa tgtaaagagc agaaagcaat tcaggctacc ctgccttttg 180
tgctggctag tactccgggc ggtgtcagca gcacgtggca ttgaacattg caatgtggag 240
cccaaaccac agaaaatggg gtgaaattgg ccaactttct attaatcttg cttcctgttt 300
tataaaatat tgtgaataat atcacctact tcaaagggca gttatgaggc ttaaatgaac 360
taacgcctac aaaacactta aacatagata acatagggtgc aagtactatg tatctggtac 420
atggtaaaca tccttattat taaagtcaac gctaaaatga atgtgtgtgc atatgcta 480
agtacagaga gagggcactt aaaccaacta agggcctgga gggaagggtt cctggaaaga 540
ngatgcttgt gctgggtcca aatcttggtc tactatgacc ttggccaaat tatttaaact 600
ttgtccctat ctgctaaaca gatac 624

```

```

<210> 444
<211> 425
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(425)
<223> n = A,T,C or G

```

```

<400> 444
gcacatcatt nntcttgcat tctttgagaa taagaagatc agtaaatagt tcagaagtgg 60
gaagctttgt ccaggcctgt gtgtgaaccc aatgttttgc ttagaaatag aacaagtaag 120
ttcattgcta tagcataaca caaaatttgc ataagtgggt gtcagcaaat ccttgaatgc 180
tgcttaatgt gagagggttg taaaatcctt tgtgcaacac tctaactccc tgaatgtttt 240
gctgtgctgg gacctgtgca tgccagacaa ggccaagctg gctgaaagag caaccagcca 300
cctctgcaat ctgccacctc ctgctggcag gatttgtttt tgcatcctgt gaagagccaa 360
ggaggcacca gggcataagt gagtagactt atgggtcgacg cggccgcgaa tttagtagta 420
gtaga 425

```

```

<210> 445
<211> 414
<212> DNA
<213> Homo sapiens

```

<220>  
 <221> misc\_feature  
 <222> (1)...(414)  
 <223> n = A,T,C or G

<400> 445  
 catgtttatg ntttttgatt actttgggca cctagtgttt ctaaactgtc tatcattcctt 60  
 ttctgttttt caaaagcaga gatggccaga gtctcaacaa actgtatcctt caagtctttg 120  
 tgaaattcctt tgcattgtggc agattattgg atgtagtctt ctttaactag catataaatc 180  
 tgggtgtgttt cagataaatg aacagcaaaa tgtggtggaa ttaccatttg gaacattgtg 240  
 aatgaaaaat tgtgtctcta gattatgtaa caaataacta tttcctaacc attgattcctt 300  
 ggatttttat aatcctactc acaaatgact aggccttctc tcttgatatt tgaagcagt 360  
 tgggtgctgg attgataaaa aaaaaaaaag tcgacgcggc cgcgaattta gtag 414

<210> 446  
 <211> 631  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(631)  
 <223> n = A,T,C or G

<400> 446  
 acaaattaga anaaagtgcc agagaacacc acataccttg tccggaacat tacaatggct 60  
 tctgcatgca tgggaagtgt gagcattcta tcaatatgca ggagccatct tgcaggtgtg 120  
 atgctggtta tactggacaa cactgtgaaa aaaaggacta cagtgttcta tacgttgctc 180  
 ccggtcctgt acgatttcag tatgtcttaa tcgcagctgt gattggaaca attcagattg 240  
 ctgtcatctg tgtggtggtc ctctgcatca caagggccaa actttaggta atagcattgg 300  
 actgagattt gtaaaacttc caacottcca ggaaatgccc cagaagcaac agaattcaca 360  
 gacagaagca aaatacaggg cactacagtt cagacaatac aacaagagcg tccacgaggt 420  
 taatctaaag ggagcatgtt tcacagtggc tggactaccg agagcttgga ctacacaata 480  
 cagtattata gacaaaagaa taagacaaga gatctacaca tgttgccctg catttggtgtg 540  
 aatctacacc aatgaaaaca tgtactacag ctatatattga ttatgtatgg atatatttga 600  
 aatagtatac attgtcttga tgttttttct g 631

<210> 447  
 <211> 585  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(585)  
 <223> n = A,T,C or G

<400> 447  
 ccttgaggaaa antntcacia tataaagggt cgtagacttt actccaaatt ccaaaaagggt 60  
 cctggccatg taatcctgaa agttttccca aggtagctat aaaatcctta taagggtgca 120  
 gcctcttctg gaattcctct gatttcaaag tctcactctc aagttcttga aaacgagggc 180  
 agttcctgaa aggcaggtat agcaactgat cttcagaaaag aggaactgtg tgcaccggga 240  
 tgggctgcca gagtaggata ggattccaga tgctgacacc ttctggggga aacagggctg 300  
 ccaggtttgt catagcactc atcaaagtcc ggtcaacgctc tgtgcttcca atataaacct 360

```
gttcatgttt ataggactca ttcaagaatt ttctatatct ctttcttata tactctccaa 420
gttcataatg ctgctccatg cccagctggg tgagttggcc aaatccttgt ggccatgagg 480
attcctttat ggggtcagtg ggaaagggtg caatgggact tcggtctcca tgccgaaaca 540
ccaaagtcac aaacttcaac tccttggcta gtacacttcg gtcta 585
```

```
<210> 448
<211> 93
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(93)
<223> n = A,T,C or G
```

```
<400> 448
tgctcgtggg tcattctgan nnccgaactg acctgcccag ccctgcccgan gggccnccat 60
ggctccctag tgccctggag agganggggc tag 93
```

```
<210> 449
<211> 706
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G
```

```
<400> 449
ccaagttcat gctntgtgct ggacgctgga cagggggcaa aagcnnttgc tcgtgggtca 60
ttctgancac cgaactgacc atgccagccc tgccgatggt cctccatggc tccctagtgc 120
cctggagagg aggtgtctag tcagagagta gtcttggaag gtggcctctg ngaggagcca 180
cggggacagc atcctgcaga tggtcgggcg cgtcccatc gccattcagg ctgcgcaact 240
gttgggaagg gcgatcgggtg cgggcctctt cgctattacg ccagctggcg aaagggggat 300
gtgctgcaag gcgattaagt tgggtaacgc caggggtttc ccagtcncga cgttgtaaaa 360
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cgtacgtaag cttggatcct ctagagcggc cgectactac tactaaattc gcggcccgct 480
cgacgtggga tccncaactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540
cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggaggctgag 600
aacaggttga acctgggagg tggaggttgc aatgagctga gatcaggccn ctgcncacca 660
gcatggatga cagagtgaaa ctccatctta aaaaaaaaaa aaaaaa 706
```

```
<210> 450
<211> 493
<212> DNA
<213> Homo sapiens
```

```
<400> 450
gagacggagt gtcactctgt tgcccaggct ggagtgcagc aagacactgt ctaagaaaaa 60
acagttttaa aaggtaaaac aacataaaaa gaaatatcct atagtggaaa taagagagtc 120
aaatgaggct gagaacttta caaagggatc ttacagacat gtcgccaata tcaactgcatg 180
agcctaagta taagaacaac ctttggggag aaacctcatc ttgacagtga ggtacaattc 240
caagtcagggt agtgaaatgg gtggaattaa actcaaatta atcctgccag ctgaaacgca 300
```



```
<210> 451
<211> 501
<212> DNA
<213> Homo sapiens
```

<400>	451						
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aacgccaggg	ttttccagc	cncgacgtt	taaaacgac	gccagtgaat	tgaatttag	180	
tgacnctata	gaagagctat	gacgtcgcat	gcacgcgtac	gtaagcttgg	atcctctaga	240	
gcggccgcct	actactacta	aattcgcggc	cgcgtcgac	tgggatccnc	actgagagag	300	
tggagagtga	catgtgtgtg	acnctgtcca	tgaagcactg	agcagaagct	ggaggcacia	360	
cgncccagac	actcacagct	actcaggagg	ctgagaacag	gttgaacctg	ggagggtggag	420	
gttgcaatga	gttgagatca	ggcncctgcn	cccagcatg	gatgacagag	tgaaaactcca	480	
tcttaaaaaa	aaaaaaaaaa	a				501	

```
<220>
<221> misc_feature
<222> (1)...(51)
<223> n = A,T,C or G
```

```
<210> 453
<211> 317
<212> DNA
<213> Homo sapiens
```

```
<400> 453
tacatcttgc tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa 60
acatctgaag agctagtcta tcagcatctg gcaagtgaat tggatggttc tcagaaacct 120
ttcaccnaa cagcctgttt ctatcctgtt taataaatta gtttggggttc tctacatgca 180
taacaaaccc tgcctcaatc tgctcacataa aagtcctgtga cttgaagttt antcagcacc 240
```

cccaccaaac tttatTTTTc tatgtgtttt ttgcaacata tgagtgtttt gaaaataagg 300  
 tacccatgtc tttatta 317

<210> 454  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 454  
 ttcgaggtac aatcaactct cagagtgtag tttccttcta tagatgagtc agcattaata 60  
 taagccacgc cacgtctttg aaggagtctt gaattctcct ctgctcactc agtagaacca 120  
 agaagaccaa attcttctgc atcccagctt gcaaacaaaa ttgttcttct aggtctccac 180  
 cttcctttt tcagtgttcc aaagctctct acaatttcat gaacaacagc t 231

<210> 455  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 455  
 taccaaagag ggcataataa tcagtctcac agtaggggttc accatcctcc aagtgaaaaa 60  
 cattgttccg aatgggcttt ccacaggcta cacacacaaa acaggaaaca tgccaagtgt 120  
 gtttcaacgc attgatgact tctccaagga tcttcctttg gcatcgacca cattcagggg 180  
 caaagaattt ctcatagcac agtcacaaat acagggtctc tttctcctct a 231

<210> 456  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 456  
 ttggcaggta ccottacaaa gaagacacca taccttatgc gttattaggt ggaataatca 60  
 ttccattcag tattatcggt attattcttg gagaaacctt gtctgtttac tgtaaccttt 120  
 tgcactcaaa ttcttttata aggaataact acatagccac tatttacaaa gccattggaa 180  
 cctttttatt tgggtgcagct gctagtcagt ccttgactga cattgccaag t 231

<210> 457  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(231)  
 <223> n = A,T,C or G

<400> 457  
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 gcattcctta atatgatctt gctataatta gatttttctc cattagagtt catacagttt 120  
 tatttgattt tattagcaat ctctttcaga agacccttga gatcattaag ctttgtatcc 180  
 agttgtctaa atcgatgcct catttctctt gaggtgtcgc tggcttttgt g 231

<210> 458  
 <211> 231

<212> DNA  
<213> Homo sapiens

<400> 458  
aggtctggtt cccccactt cactccct ctactctctc taggactggg ctgggccaaag 60  
agaagagggg tggtaggga agccgttgag acctgaagcc ccacctcta ccttccttca 120  
acaccctaac cttgggtaac agcatttgga attatcattt gggatgagta gaatttccaa 180  
ggcctgggt taggcatttt ggggggccag accccaggag aagaagattc t 231

<210> 459  
<211> 231  
<212> DNA  
<213> Homo sapiens

<400> 459  
ggtaccgagg ctgctgaca cagagaaacc ccaacgcgag gaaaggaatg gccagccaca 60  
ccttcgcaaa acctgtggtg gccaccagt cctaaccgga caggacagag agacagagca 120  
gccctgact gttttccctc caccacagcc atcctgtccc tcattggctc tgtgctttcc 180  
actatacaca gtcaccgtcc caatgagaaa caagaaggag caccctccac a 231

<210> 460  
<211> 231  
<212> DNA  
<213> Homo sapiens

<400> 460  
gcaggtataa catgctgcaa caacagatgt gactaggaac ggccggtgac atggggaggg 60  
cctatcaccg tattcttggg ggtgcttct tcacagtgat catgaagcct agcagcaaat 120  
ccacctccc cacacgcaca cgccagcct ggagcccaca gaagggtcct cctgcagcca 180  
gtggagcttg gtccagcctc cagtcacccc ctaccaggct taaggataga a 231

<210> 461  
<211> 231  
<212> DNA  
<213> Homo sapiens

<400> 461  
cgaggtttga gaagctctaa tgtgcagggg agccgagaag caggcgccct agggagggtc 60  
gcgtgtgctc cagaagagtg tgtgcatgcc agaggggaaa caggcgccctg tgtgtcctgg 120  
gtggggttca gtgaggagtg ggaaattggg tcagcagaac caagccgttg ggtgaataag 180  
agggggattc catggcactg atagagccct atagtctcag agctgggaat t 231

<210> 462  
<211> 231  
<212> DNA  
<213> Homo sapiens

<400> 462  
aggtaccctc attgtagcca tgggaaaatt gatgttcagt ggggatcagt gaattaaatg 60  
gggtcatgca agtataaaaa ttaaaaaaaa aagacttcat gcccaatctc atatgatgtg 120  
gaagaactgt tagagagacc aacagggtag tgggttagag atttccagag tcttacattt 180  
tctagaggag gtatttaatt tcttctcact catccagtgt tgtatttagg a 231

<210> 463

<211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 463  
 tactccagcc tgggtgacaga gcgagaccct atcaccgccc cccaccccac caaaaaaaaa 60  
 actgagtaga cagggtgtcct cttggcatgg taagtcttaa gtccctccc agatctgtga 120  
 catttgacag gtgtcttttc ctctggacct cgggtgtcccc atctgagtga gaaaaggcag 180  
 tggggagggtg gatcttccag tcgaagcggc atagaagccc gtgtgaaaag c 231

<210> 464  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 464  
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 aaggacatca catatgaaga atgtttaagt tggagggtggc aacgtgaatt gcaaacaggg 120  
 cctgcttcag tgactgtgtg cctgtagtcc cagctactcg ggagtctgtg tgaggccagg 180  
 ggtgccagcg caccagctag atgctctgta acttctaggc cccattttcc c 231

<210> 465  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 465  
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 gtggcaaatt agcaacaaat tctgacatca tatttatggg ttctgtatct ttgttgatga 120  
 aggatggcac aatttttgct tgtgttcata atatactcag attagttcag ctccatcaga 180  
 taaactggag acatgcagga cattagggta gtgttgtagc tctggtaatg a 231

<210> 466  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 466  
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 cctgtgcaat caaatattgt ggagaattcc ctagctggag aagtcacaaa gactataggc 180  
 aataatggag accagtccca caagatgaca accagtcgtt gtgtgcggct g 231

<210> 467  
 <211> 311  
 <212> DNA  
 <213> Homo sapiens

<400> 467  
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 tgtgccttaa cagaagggtct tgagattcta agtgggaatc atttcagtga ctgtcatgtg 180  
 gcatgggtct ctgcccgaagc tcgtaatgag actatagcaa ggcggctgtg ggacgtcagt 240  
 tgtgacctgc tgggcctccc aatagactaa caggcagtgc cagttggacc caagagaaga 300

ctgcagcaga c

311

<210> 468  
 <211> 3112  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 468

```

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<210> 469

<211> 2229

<212> DNA

<213> Homo sapiens

<400> 469

```

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tgatttgcca aaattctaaa gcgcactcac catgaaatgg ataaagggtta cctttgggga 180
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aatggaatt 2229

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<210> 470

<211> 2426

<212> DNA  
<213> Homo sapiens

<400> 470

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```

<210> 471  
<211> 812  
<212> DNA  
<213> Homo sapiens

<400> 471

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```

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```

```

<210> 472
<211> 515
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(515)
<223> n = A,T,C or G

```

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<400> 472
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<210> 473
<211> 5829
<212> DNA
<213> Homo sapiens

```

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<400> 473
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<210> 474
<211> 1594
<212> DNA
<213> Homo sapiens

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<400> 474
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```

```

<210> 475
<211> 2414
<212> DNA
<213> Homo sapiens

```

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<220>
<221> unsure
<222> (33)
<223> n=A,T,C or G

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<400> 475
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ctggctcatgt aagtcaactt gtatcggtta atttttaaaa ggtttattta catgcaataa 1860
actgcacata cttcaattgt acattttggt aattcttggc attttagact ctataaaacc 1920

```

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agcaacatat taaaatagca aacatatcca ttacctttac caccaaagtt ttcttgtgtt 1980
ttttctactc acttttttcc gcctatcccc ccatctcttc cacaggtaac cactgatcca 2040
cttccagtc aatccatga gttttttatt ccaaatacat gaaatcatat gaattttctgg 2100
tttttctgt tggagcccaa ggagcaaggg cagaatgagg aacatgatgt ttcttwccga 2160
cagttactca tgacgtctcc atccaggact gaggggggca tccttctcca tctaggactg 2220
ggggcatcct tctccatcca gtattggggg tcatccttct ccatccagta ttgggggtca 2280
tctctctcca tccaggacct gaggggtgtc cttttctgcg cttccttgga tggcagtcct 2340
tcccttcatt tttatagtra cttaccatta aatcactgtg ccgttttttc ctaaaataaa 2400
aaaaaaaaaa aaaa 2414

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<210> 476
<211> 3434
<212> DNA
<213> Homo sapiens

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<400> 476
ctgtgctgca aatgggggcca tatagaggaa aggagcagct ggctctggag catggtgtgc 60
actccctttg ggccttcagt ccattgtctca tgggtcgtat gacactgcgg gcttgttggg 120
tgccaagagg cagaccacag gtcattctga ggaggacttt atgttccagt ccagaaagca 180
gccagtggta ccaccaggg gacttgtgct tctgtggccc aggccagacg tagaatttga 240
caaagtcagg acggtctcag tcagagcagc atgtcgggtc ccggggcctg tgcattgccg 300
gcagggccag gctggcttaa ggagcaagca gccacctctg ttagggggtg gcctggagca 360
ggtggagcag ccaccaacct cagcactga aagaagcagg gatggccagg ttccaacatc 420
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gctttgtagt gctgttcttt gtctctcttg atctttttca gttaatgtct gttttatcag 540
agactaggat tgcaaacctt gctctttttt gctttccatt tgcttggtaa atattcctcc 600
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ttgctagctt tttatttttc ccattagtgt gcagtttctt tatagtgtca atgggtctta 840
caattcgata tgtttttgta gtggctggta ctggtttttc ctttctacgt ttagtgtctc 900
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ttaagaaagg aaaaaacaca aattatcaga aaaacaacag taagatcaag tgcaaaagtt 1620
ctgtggcaaa gatgatgaga gtaaaagata tatgtttgtg actcatgggt gcttttactt 1680
tgttcttgaa tttctgagta cgggttaaca tttaaagaat ctacattata gataacattt 1740
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tacttcatta tcaagctata ttattttatt aatgtagttc gatgatctta cagcaaagct 1860
gaaagctgta tcttcaaaat atgtctatct gactaaaaag ttattcaaca ggagttatta 1920
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taatatataa tcttaaaaaa catatggaaa ctacacaatg gtgaagacac attggtgaag 2040
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aaatcccttt aaaggttagt ttgtaaaatc aggttaagtt atttataatt tgctttcatt 2160
tatttcactg caaattatat tttggatatg tatatatatt gtgcttctc tgctgtctt 2220
acagcaattt gccttgca ga gttctaggaa aaagtgaggca tgtgttttta ctttcaaaat 2280

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<210> 477
<211> 140
<212> PRT
<213> Homo sapiens
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<400> 477
Met Asp Gly His Thr Asp Ile Trp Arg Asn His Met Asp Thr Pro Pro
      5                      10                      15

His Tyr His Arg Asp Thr Asp Thr Arg Arg His His His Met Asp Thr
      20                      25                      30

Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr
      35                      40                      45

His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp
      50                      55                      60

His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr
      65                      70                      75                      80

Pro Pro His Thr Leu Pro Val Asp Thr Arg Thr His Arg His Cys His
      85                      90                      95

Thr Asp Thr Gln Asn Thr Val Thr Arg Arg His His His Ala Asp Thr
      100                      105                      110

Pro Pro Leu Trp Cys Arg Leu Asn Tyr Pro Ala Gly Gly Thr Ala Val
      115                      120                      125

Ala Tyr Ser Cys Leu Ser Asp Trp Leu Ser Pro Gln
      130                      135                      140

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<400> 478
Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
      5              10              15

Ser His Gly His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
      20              25              30

Gly Glu Ile Thr Trp Thr His His His Thr Ile Thr Gly Thr Gln Thr
      35              40              45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
      50              55              60

Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
      65              70              75              80

Pro Thr His Cys His Met Asp Thr Gly Thr His Thr Ala Thr Leu Ser
      85              90              95

His Gly His Thr Ser Thr Pro Ser His His His Thr His Cys Leu Trp
      100             105             110

Thr Gln Gly His Thr Asp Thr Val Thr Gln Ile His Lys Thr Leu Ser
      115             120             125

His Gly Asp Ile Thr Met Gln Ile His His His Ser Gly Ala Val
      130             135             140

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<400> 479

Met	Tyr	Arg	His	Thr	Glu	Thr	Leu	Pro	His	Gly	Asp	Thr	Val	Thr	Gln	
				5					10					15		
Ser	His	Glu	His	Thr	Gly	Ile	Val	Thr	Trp	Thr	Asp	Thr	Gln	Thr	Tyr	
			20					25					30			
Gly	Glu	Ile	Thr	Leu	Thr	His	His	His	Thr	Ile	Thr	Gly	Thr	Gln	Thr	
		35					40					45				
His	Gly	Asp	Ile	Thr	Thr	Trp	Thr	His	Cys	His	Thr	Thr	Thr	Gly	Thr	
	50					55					60					
Arg	Asp	Ile	Thr	Leu	Ser	His	Gly	His	Thr	Ile	Thr	His	Met	Asn	Thr	



Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly  
                   100                  105                  110

Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu  
           115                  120                  125

Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly  
       130                  135                  140

<210> 481

<211> 167

<212> PRT

<213> Homo sapiens

<400> 481

Met His Gly Pro Gln Val Leu Ala Arg Cys Ser Glu Cys Ala Cys Pro  
                   5                  10                  15

Ala Leu Ala Ala Thr Ser Ala Gly Val Arg Leu Glu Gly Val Asp Arg  
                   20                  25                  30

Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys Ser His Ser  
           35                  40                  45

Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys  
       50                  55                  60

Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr Asp Val Pro  
       65                  70                  75                  80

Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser Ser Trp Arg  
                   85                  90                  95

Ala Leu Ala Glu Val Thr Gly Cys Ser Leu Gly Pro Leu Gly Leu Ala  
           100                  105                  110

Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys Trp Ser His  
           115                  120                  125

Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr Ala Ala Phe  
       130                  135                  140

Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu Trp Ala Ser  
       145                  150                  155                  160

Trp Leu Ser Arg Gly Arg Pro  
                   165

<210> 482



<211> 143  
 <212> PRT  
 <213> Homo sapiens

<400> 482  
 Met Glu Pro Tyr Arg Gly Asn Lys Lys Gln Val Gln Glu Lys Gly Val  
                           5                          10                          15  
 Pro Cys Leu Trp Gly Ser Ser Pro Cys Leu Arg Cys His Met Ala Leu  
                           20                          25                          30  
 Arg Ala Ser Trp Leu Pro Gly Gly Gly Pro Gln Ala Ile Leu Gly Arg  
                           35                          40                          45  
 Thr Leu Cys Ser Ser Ala Glu Ser Ser Gln Asp Cys His Pro Gly Gly  
                           50                          55                          60  
 Pro Ser Ile Ala Leu Ala Lys Pro Cys Arg Gly Val Trp Leu Leu Phe  
                           65                          70                          75                          80  
 Glu Pro Ala Trp Pro Pro Trp His Ala Arg Ala Pro Gly Ala Gly Thr  
                           85                          90                          95  
 Leu Leu Arg Val Cys Leu Ser Cys Leu Gly Cys His Leu Cys Gly Gly  
                           100                          105                          110  
 Ala Ser Gly Gly Gly Gly Pro Ala Thr Asn Leu Thr Gln Ser Arg Lys  
                           115                          120                          125  
 Trp Met Ala Met Phe Pro Gln Pro Glu Trp Leu Pro Pro Asp Gly  
                           130                          135                          140

<210> 483  
 <211> 143  
 <212> PRT  
 <213> Homo sapiens

<400> 483  
 Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val  
                           5                          10                          15  
 Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala  
                           20                          25                          30  
 Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp  
                           35                          40                          45  
 Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu  
                           50                          55                          60  
 Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp  
                           65                          70                          75                          80

<400> 487

cccgaattct tagctgccca tccgaacgcc ttcata

36

<210> 488

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 488

gggaagcttc ttccccggct gcaccagctg tgc

33

<210> 489

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 489

Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala  
 1 5 10 15  
 Ser Val Ala

<210> 490

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 490

Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys  
 1 5 10 15  
 Leu Ser His Ser  
 20

<210> 491

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 491

Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu  
 1 5 10 15  
 Thr Gly Phe Thr  
 20

<210> 492  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 492  
 Ala Leu Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr  
 1 5 10 15  
 Leu Ala Ser Leu  
 20

<210> 493  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 493  
 Tyr Thr Leu Ala Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro  
 1 5 10 15  
 Lys Tyr Arg Gly  
 20

<210> 494  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 494  
 Leu Pro Lys Tyr Arg Gly Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser  
 1 5 10 15  
 Leu Met Ile Ser  
 20

<210> 495  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 495  
 Asp Ser Leu Met Thr Ser Phe Leu Pro Gly Pro Lys Pro Gly Ala Pro

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1           5           10           15
Phe Pro Asn Gly
20

<210> 496
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 496
Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu
1           5           10           15
Pro Pro Pro Pro Ala
20

<210> 497
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 497
Leu Leu Pro Pro Pro Ala Leu Cys Gly Ala Ser Ala Cys Asp Val
1           5           10           15
Ser Val Arg Val
20

<210> 498
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 498
Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala Arg Val
1           5           10           15
Val Pro Gly Arg
20

<210> 499
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

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<400> 499  
 Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp  
 1 5 10 15  
 Ser Ala Phe Leu  
 20

<210> 500  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 500  
 Leu Asp Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met  
 1 5 10 15  
 Gly Ser Ile Val  
 20

<210> 501  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 501  
 Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met  
 1 5 10 15  
 Val Ser Ala Ala  
 20

<210> 502  
 <211> 414  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(414)  
 <223> n=A,T,C or G

<400> 502  
 caccatggag acaggcctgc gctgggtttt cctgggtcgt gtgctcaaag gtgtccaatg 60  
 tcagtcggtg gaggagtccg ggggtcgctt ggtcacgcct gggacacctt tgacantcac 120  
 ctgtagagtt tttggaatng acctcagtag caatgcaatg agctgggtcc gccaggtccc 180  
 agggaagggg ctggaatgga tcggagccat tgataattgt ccacantacg cgacctgggc 240  
 gaaaggccga ttnatnattt ccaaaacctn gaccacggtg gatttgaaaa tgaccagtcc 300  
 gacaaccgag gacacggcca cctatTTTTG tggcagaatg aatactggta atagtgggtg 360  
 gaagaatatt tggggcccag gcaccctggt caccgtntcc tcagggcaac ctaa 414

<210> 503

<211> 379  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(379)  
 <223> n=A,T,C or G

<400> 503  
 atnccgatggt gcttgggtcaa aggtgtccag tgtcagtcgg tggaggagtc cggggggtcgc 60  
 ctgggtcacgc ctgggacacc cctgacactc acctgcaccg tntctggatt ngacatcagt 120  
 agctatggag tgagctgggt ccgccaggct ccagggaagg ggctgggata catcgatca 180  
 ttagtagtag tggtagattt tacgcgagct gggcgaaaagg ccgattcacc atttccaaaa 240  
 cctngaccac ggtggatttg aaaatcacca gtttgacaac cgaggacacg gccacctatt 300  
 tntgtgccag aggggggttt aattataaag acatttgggg cccaggcacc ctgggtcaccg 360  
 tntccttagg gcaacctaa 379

<210> 504  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 504  
 Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp Ser Pro Tyr Phe Lys Glu  
 1 5 10 15  
 Asn Ser Ala

<210> 505  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 505  
 Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn Asp Asn Val Thr  
 1 5 10 15  
 Asn Thr Ala Asn  
 20

<210> 506  
 <211> 407  
 <212> DNA  
 <213> Homo Sapien

<400> 506  
 atggagacag gcctgcgctg gcttctcctg gtcgctgcgc tcaaagggtgt ccagtgtcag 60

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tcgctggagg agtccggggg tcgcctgggc acgcctggga caccctgac actcacctgc      120
accgtctctg gattctccct cagtagcaat gcaatgatct gggtcgccca ggctccaggg      180
aaggggctgg aatacatcgg atacattagt tatgggtgga gcgcatacta cgcgagctgg      240
gtgaaaggcc gattcaccat ctccaaaacc tcgaccacgg tggatctgag aatgaccagt      300
ctgacaaccg aggacacggc cacctatttc tgtgccagaa atagtgattt tagtggtatg      360
ttgtggggcc caggcaccct ggtcaccgtc tcctcagggc aacctaa                      407

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<210> 507
<211> 422
<212> DNA
<213> Homo Sapien

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<400> 507
atggagacag gcctgcgctg gcttctcctg gtcgctgtgc tcaaagggtg ccagtgtcag      60
tcggtggagg agtccggggg tcgcctgggc acgcctggga caccctgac actcacctgt      120
acagtctctg gattctccct cagcaactac gacctgaact gggtcgccca ggctccaggg      180
aaggggctgg aatggatcgg gatcattaat tatgttgga ggacggacta cgcgaactgg      240
gcaaaaggcc gggtcaccat ctccaaaacc tcgaccacgg tggatctcaa gatcgccagt      300
ccgacaaccg aggacacggc cacctatttc tgtgccagag ggtggaagtg cgatgagtct      360
ggtcctgtgt tgcgcatctg gggcccaggc acctgggtca ccgtctcctt agggcaacct      420
aa                                                                422

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```

<210> 508
<211> 411
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(411)
<223> n=A,T,C or G

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<400> 508
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cgggtggagg gtccgggggt cgcttggtca cgctggggac acccctgaca ctcacctgca      120
cagtctctgg aatcgacctc agtagctact gcatgagctg ggtccgccag gctccagggg      180
aggggctgga atggatcgga atcattggta ctcttggtga cacatactac gcgaggtggg      240
cgaaaggccg attcaccatc tccaaaacct cgaccacggt gcatntgaaa atcnccagtc      300
cgacaaccga ggacacggcc acctatttct gtgccagaga tcttcgggat ggtagtagta      360
ctggttatta taaaatctgg ggcccaggca ccttgggtcac cgtctccttg g                      411

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```

<210> 509
<211> 15
<212> PRT
<213> Artificial Sequence

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<220>
<223> Made in a lab

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<400> 509
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
1           5           10           15

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```

<210> 510

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<211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 510  
 Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile  
 1 5 10 15

<210> 511  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 511

Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln Lys  
 1 5 10 15

<210> 512  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 512  
 Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu  
 1 5 10 15

<210> 513  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 513  
 Ala Pro Cys Gly Gln Val Gly Val Pro Asx Val Tyr Thr Asn Leu  
 1 5 10 15

<210> 514  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Made in a lab

<400> 514

Leu	Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser
1				5					10					15

<210> 515

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 515

Met	Val	Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg
1				5					10					15

<210> 516

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 516

Val	Ser	Glu	Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln
1				5					10					15

<210> 517

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 517

Glu	Val	Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met
1				5					10					15

<210> 518

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 518

Arg	Ala	Glu	Pro	Gly	Thr	Glu	Ala	Arg	Arg	His	Tyr	Asp	Glu	Gly
1				5					10					15

<210> 519  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 519  
 Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg Asn Tyr Asp Glu Gly Cys  
 1 5 10 15  
 Gly

<210> 520  
 <211> 25  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 520  
 Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr  
 1 5 10 15  
 Glu Ala Arg Arg His Tyr Asp Glu Gly  
 20 25

<210> 521  
 <211> 21  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 521  
 Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu  
 1 5 10 15  
 Pro Pro Pro Pro Ala  
 20

<210> 522  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 522  
 Leu Leu Val Val Pro Ala Ile Lys Lys Asp Tyr Gly Ser Gln Glu Asp  
 1 5 10 15  
 Phe Thr Gln Val

20

<210> 523  
 <211> 254  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<220>  
 <221> VARIANT  
 <222> (1)...(254)  
 <223> Xaa = any amino acid

&lt;400&gt; 523

Met	Ala	Thr	Ala	Gly	Asn	Pro	Trp	Gly	Trp	Phe	Leu	Gly	Tyr	Leu	Ile
1				5				10						15	
Leu	Gly	Val	Ala	Gly	Ser	Leu	Val	Ser	Gly	Ser	Cys	Ser	Gln	Ile	Ile
			20					25					30		
Asn	Gly	Glu	Asp	Cys	Ser	Pro	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu
		35					40					45			
Val	Met	Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln
	50					55					60				
Trp	Val	Leu	Ser	Ala	Thr	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly
65					70				75					80	
Leu	Gly	Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met
				85					90					95	
Val	Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu
			100					105					110		
Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu
		115					120					125			
Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala
	130					135					140				
Gly	Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg
145					150					155				160	
Met	Pro	Thr	Val	Leu	Gln	Cys	Val	Asn	Val	Ser	Val	Val	Ser	Glu	Glu
				165					170					175	
Val	Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys
			180					185					190		
Ala	Gly	Gly	Gly	Gln	Xaa	Gln	Xaa	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly
		195					200					205			
Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly
	210					215					220				
Lys	Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu
225					230					235					240
Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser		
				245					250						

<210> 524  
 <211> 765  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 524

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tgcagccct	ggcaggcggc	actggtcctg	gaaaacgaat	tggtctgctc	gggcgtcctg	180
gtgcatccgc	agtgggtgct	gtcagccgca	cactgtttcc	agaactccta	caccatcggg	240
ctgggcctgc	acagtcttga	ggccgaccaa	gagccagggg	gccagatggg	ggaggccagc	300
ctctccgtac	ggcaccacga	gtacaacaga	cccttgctcg	ctaacgacct	catgctcatc	360
aagttggacg	aatccgtgct	cgagtctgac	accatccgga	gcatacagcat	tgcttcgcag	420
tgccctaccg	cggggaactc	ttgcctcggt	tctggctggg	gtctgctggc	gaacggcaga	480
atgcctaccg	tgctgcagtg	cgtgaacgtg	tgggtggtgt	ctgaggaggt	ctgcagtaag	540
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gactcctgca	acggtgactc	tggggggccc	ctgatctgca	acgggtactt	gcagggcctt	660
gtgtctttcg	gaaaagcccc	gtgtggccaa	gttggcgtgc	caggtgtcta	caccaacctc	720
tgcaaattca	ctgagtggat	agagaaaacc	gtccaggcca	gttaa		765

&lt;210&gt; 525

&lt;211&gt; 254

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 525

Met	Ala	Thr	Ala	Gly	Asn	Pro	Trp	Gly	Trp	Phe	Leu	Gly	Tyr	Leu	Ile	
1				5				10						15		
Leu	Gly	Val	Ala	Gly	Ser	Leu	Val	Ser	Gly	Ser	Cys	Ser	Gln	Ile	Ile	
			20					25					30			
Asn	Gly	Glu	Asp	Cys	Ser	Pro	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu	
		35					40					45				
Val	Met	Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln	
	50					55					60					
Trp	Val	Leu	Ser	Ala	Ala	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly	
65					70				75						80	
Leu	Gly	Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met	
				85					90					95		
Val	Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu	
			100					105					110			
Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu	
		115				120					125					
Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala	
	130					135					140					
Gly	Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg	
145					150					155					160	
Met	Pro	Thr	Val	Leu	Gln	Cys	Val	Asn	Val	Ser	Val	Val	Ser	Glu	Glu	
				165					170					175		
Val	Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys	
			180					185					190			
Ala	Gly	Gly	Gly	Gln	Asp	Gln	Lys	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly	
		195					200					205				
Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly	
	210					215					220					
Lys	Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu	
225					230					235					240	
Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser			
				245					250							

<210> 526  
 <211> 963  
 <212> DNA  
 <213> Homo sapiens

<400> 526  
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 aactgcatcg tggctttcat cgtaaggacg gaacgcagcc tgcacgctcc gatgtacctc 180  
 tttctctgca tgccttgacg cattgacctg gccttatcca catccaccat gcctaagatc 240  
 cttgcccttt tctggtttga ttcccgagag attagctttg aggcctgtct taccagatg 300  
 ttctttattc atgccctctc agccattgaa tccaccatcc tgctggccat ggcctttgac 360  
 cgttatgtgg ccactcgcca cccactgcgc catgctgcag tgctcaacaa tacagtaaca 420  
 gccagattg gcactcgtggc tgtgggcgc ggatccctct tttttttccc actgcctctg 480  
 ctgatcaagc ggctggcctt ctgccactcc aatgtcctct cgcactccta ttgtgtccac 540  
 caggatgtaa tgaagttggc ctatgcagac actttgcccc atgtggtata tggctttact 600  
 gccattctgc tgggtcatggg cgtggacgta atgttcatct ccttgctcta ttttctgata 660  
 atacgaacgg ttctgcaact gccttccaag tcagagcggg ccaaggcctt tggaacctgt 720  
 gtgtcacaca ttggtgtggg actcgccttc tatgtgccac ttattggcct ctcaagtgtg 780  
 caccgctttg gaaacagcct tcatccatt gtgcgtgttg tcatgggtga catctacctg 840  
 ctgctgcctc ctgtcatcaa tcccatcatc tatggtgcc aacacaaaca gatcagaaca 900  
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 tga 963

<210> 527  
 <211> 320  
 <212> PRT  
 <213> Homo sapiens

<400> 527  
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 Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser  
                   20                  25                  30  
 Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val  
                   35                  40                  45  
 Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met  
                   50                  55                  60  
 Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile  
                   65                  70                  75                  80  
 Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys  
                   85                  90                  95  
 Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr  
                   100                  105                  110  
 Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro  
                   115                  120                  125

Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly  
 130 135 140  
 Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu  
 145 150 155 160  
 Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser  
 165 170 175  
 Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu  
 180 185 190  
 Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val  
 195 200 205  
 Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val  
 210 215 220  
 Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys  
 225 230 235 240  
 Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly  
 245 250 255  
 Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg  
 260 265 270  
 Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro  
 275 280 285  
 Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala  
 290 295 300  
 Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys  
 305 310 315 320

&lt;210&gt; 528

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;400&gt; 528

actatggtcc agaggctgtg

20

&lt;210&gt; 529

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;400&gt; 529

atcacctatg tgccgcctct

20

&lt;210&gt; 530

&lt;211&gt; 1852

<212> DNA  
<213> Homo sapiens

<400> 530

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tttcctctga gaactgcaac aataaatata aggatgctgg attttgtcaa atgccttttc 180
tgtgtctgtt gagatgctta tgtgactttg cttttaattc tgtttatgtg attatcacat 240
ttattgactt gcctgtgtta gaccggaaga gctgggggtg ttctcaggag ccaccgtgtg 300
ctgcggcagc ttcgggataa cttgaggctg catcactggg gaagaaacac aytccctgtcc 360
gtggcgctga tggctgagga cagagcttca gtgtggcttc tctgcgactg gcttcttcgg 420
ggagttcttc cttcatagtt catccatatg gctccagagg aaaattatat tattttgtta 480
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aaagtgtttg tttgtgaatg gatattgtgg tttctggatc tcctcctctg tgggtggaca 660
gctttctcca ctttgcctga agtgacctgc tgtccagaag tttgatggct gaggagtata 720
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aacgtggctg cttggggaga ctacgatgac agcgcttca tggatcccag gtaccacgtc 960
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ggatcagcaa gtatagtcag ccctctactt gagcaaaatg ttgatgtatc ttctcaagat 1560
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aagacttaaa gctgacatca gaggaagagt cacaaaggct taaaggaagt gaaaacagcc 1740
agccagagct agaagattta tggctattga agaagaatga agaacacgga agtactcatg 1800
tggtattccc agaaaacctg actaacgggt ccgctgctgg caatggtgat ga 1852

```

<210> 531  
<211> 879  
<212> DNA  
<213> Homo sapiens

<400> 531

```

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tgcaagtggg gctgccactg cttccctctg tgcaggggga gcggaagag caacgtgggtc 180
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gatctggaca agctccacag agctgcttgg tggggtaaag tccccagaaa ggatctcatc 300
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cttaatgtcc ttgacaacaa aaagaggaca gctctgacaa aggccgtaca atgccaggaa 480
gatgaatgtg cgtaaatgtt gctggaacat ggcactgatc caaatattcc agatgagtat 540
ggaaatacca ctctacacta tgctgtctac aatgaagata aattaatggc caaagcactg 600
ctcttatacg gtgctgatat cgaatcaaaa aacaagcatg gcctcacacc actgctactt 660
ggtatacatg agcaaaaaa gcaagtgggt aaatttttaa tcaagaaaaa agcgaattta 720

```



```

aatgcgctgg atagatatgg aagaactgct ctcatacttg ctgtatgttg tggatcagca 780
agtatagtca gccctctact tgagcaaaat gttgatgtat cttctcaaga tctggaaaga 840
cggccagaga gtatgctggt tctagtcata atcatgtaa 879

```

<210> 532

<211> 292

<212> PRT

<213> Homo sapiens

<400> 532

```

Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly
          5                      10                      15

```

```

Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser
          20                      25                      30

```

```

Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
          35                      40                      45

```

```

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
          50                      55                      60

```

```

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
          65                      70                      75                      80

```

```

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
          85                      90                      95

```

```

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
          100                     105                     110

```

```

Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
          115                     120                     125

```

```

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
          130                     135                     140

```

```

Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
          145                     150                     155                     160

```

```

Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
          165                     170                     175

```

```

Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
          180                     185                     190

```

```

Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
          195                     200                     205

```

```

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu
          210                     215                     220

```

```

Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu
          225                     230                     235                     240

```

Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys  
 245 250 255

Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp  
 260 265 270

Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu  
 275 280 285

Val Ile Ile Met  
 290

<210> 533  
 <211> 801  
 <212> DNA  
 <213> Homo sapiens

<400> 533  
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 tatgccactg cacgattctt ggttgccaag aggccaacca caggccatct tgagaaggag 180  
 tttatgttcc actgcagaaa gcagccagga tcaccatcca ggggacttgg tcttctgtgg 240  
 ccctggccag acatagaatt tgtgccaagg caggacaagc tactcagag cagcgtgtta 300  
 gtacctcaaa tctgtgcgtg ccagacaagg ccaaactggc tcaatgagca accagccacc 360  
 tctgcagggg tgcgtctgga ggaggtggac cagccaccaa ccttaccag tcaaggaagt 420  
 ggatggccat gttcccacag cctgagtggc tgccacctga tggctgatat agcaaaggcc 480  
 ttaggaaaag cagatggccc ttggccctac cttttgtta gaagaactga tgttccatgt 540  
 cctgcagcga gtgaggttgg tggctgtgcc ccagctcct ggcacaccct cgcagagggtg 600  
 actggttgct ctttgagccc tcttagcctt gccagcatg cacaagcctc agtgctacta 660  
 ctgtgctaca aatggagcca tataggggaa acgagcagcc atctcaggag caaggtgtat 720  
 gctgcctttg ggggctccag tccttgcttc aagggtctta tgtcactgtg ggcttcttgg 780  
 ttgccaagag gcagaccata g 801

<210> 534  
 <211> 266  
 <212> PRT  
 <213> Homo sapiens

<400> 534  
 Met Tyr Lys Leu Gln Cys Asn Asn Cys Ala Thr Asn Gly Ala Thr Glu  
 5 10 15

Arg Lys Gln Ala Ala Gly Ser Gly Ala Gly Tyr Ala Leu Pro Ser Ala  
 20 25 30

Leu Gln Ser Met Pro Gln Gly Ser Tyr Ala Thr Ala Arg Phe Leu Val  
 35 40 45

Ala Lys Arg Pro Thr Thr Gly His Leu Glu Lys Glu Phe Met Phe His  
 50 55 60

Cys Arg Lys Gln Pro Gly Ser Pro Ser Arg Gly Leu Gly Leu Leu Trp

65		70		75		80
Pro Trp Pro Asp Ile Glu Phe Val Pro Arg Gln Asp Lys Leu Thr Gln						
		85		90		95
Ser Ser Val Leu Val Pro Gln Ile Cys Ala Cys Gln Thr Arg Pro Asn						
		100		105		110
Trp Leu Asn Glu Gln Pro Ala Thr Ser Ala Gly Val Arg Leu Glu Glu						
		115		120		125
Val Asp Gln Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys						
		130		135		140
Ser His Ser Leu Ser Gly Cys His Leu Met Ala Asp Ile Ala Lys Ala						
		145		150		155
Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr						
		165		170		175
Asp Val Pro Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser						
		180		185		190
Ser Trp His Thr Leu Ala Glu Val Thr Gly Cys Ser Leu Ser Pro Leu						
		195		200		205
Ser Leu Ala Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys						
		210		215		220
Trp Ser His Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr						
		225		230		235
Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu						
		245		250		255
Trp Ala Ser Trp Leu Pro Arg Gly Arg Pro						
		260		265		

<210> 535  
 <211> 6082  
 <212> DNA  
 <213> Homo sapiens

<400> 535  
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 cggagcccg gcgcactgcc gctgatcag cgcgaccccg gcccgcgccc gccccgccc 180  
 gcaagatgct gcccggtgtac caggaggtga agcccaaccc gctgcaggac gcgaacctct 240  
 gctcacgcgt gttcttctgg tggctcaatc ccttgittaa aattggccat aaacggagat 300  
 tagaggaaga tgatatgtat tcagtgtctc cagaagaccg ctacacagcac cttggagagg 360  
 agttgcaagg gttctgggat aaagaagttt taagagctga gaatgacgca cagaagcctt 420  
 ctttaacaag agcaatcata aagtgttact ggaaatctta tttagttttg ggaattttta 480  
 cggttaattga ggaaagtgcc aaagtaatcc agcccatatt tttgggaaaa attattaatt 540





tccatgtgca aatacccttt tcccaaataa cattcaattc tttaccagga aagggtggctc 240  
 aatcccttgt ttaaaattgg ccataaacgg agattagagg aagatgatat gtattcagtg 300  
 ctgccagaag accgctcaca gcaccttgga gaggagtgc aagggttctg ggataaagaa 360  
 gttttaagag ctgagaatga cgcacagaag ccttctttta caagagcaat cataaagtgt 420  
 tactggaaat cttatttagt tttgggaatt tttacgttaa ttgaggaaag tgccaaagta 480  
 atccagccca tatttttggg aaaaattatt aattattttg aaaattatga tcccatggat 540  
 tctgtggcct tgaacacagc gtacgcctat gccacggtgc tgactttttg cacgctcatt 600  
 ttggctatac tgcatacact atatttttat cacgttcagt gtgctgggat gaggttacga 660  
 gtagccatgt gccatatgat ttatcggaag gcaacttcgt ttagtaacat ggccatgggg 720  
 aagacaacca caggccagat agtcaatctg ctgtccaatg atgtgaacaa gtttgatcag 780  
 gtgacagtgt tcttacactt cctgtgggca ggaccactgc aggcgatcgc agtgactgcc 840  
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Ile	Gly	His	Lys	Arg	Arg	Leu	Glu	Glu	Asp	Asp	Met	Tyr	Ser	Val	Leu		
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Pro	Glu	Asp	Arg	Ser	Gln	His	Leu	Gly	Glu	Glu	Leu	Gln	Gly	Phe	Trp		
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Asp	Lys	Glu	Val	Leu	Arg	Ala	Glu	Asn	Asp	Ala	Gln	Lys	Pro	Ser	Leu		
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Thr Thr Tyr Val Leu Leu Gly Ser Val Ile Thr Ala Ser Arg Val Phe				
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Gln Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr				
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Phe Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly				
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Gly Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln Lys Ala Arg Val Asn				
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Leu Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile Tyr Leu Leu Asp Asp				
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Pro Leu Ser Ala Val Asp Ala Glu Val Ser Arg His Leu Phe Glu Leu				
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Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val Thr His				

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	900			905		910
Thr Ile Arg Ala Tyr Lys Ala Glu Glu Arg Cys Gln Glu Leu Phe Asp						
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Ala His Gln Asp Leu His Ser Glu Ala Trp Phe Leu Phe Leu Thr Thr						
	930			935		940
Ser Arg Trp Phe Ala Val Arg Leu Asp Ala Ile Cys Ala Met Phe Val						
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		980		985		990
Phe Gln Trp Cys Val Arg Gln Ser Ala Glu Val Glu Asn Met Met Ile						
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Ser Val Glu Arg Val Ile Glu Tyr Thr Asp Leu Glu Lys Glu Ala Pro						
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Trp Glu Tyr Gln Lys Arg Pro Pro Pro Ala Trp Pro His Glu Gly Val						
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Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser Pro Gly Gly Pro Leu						
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Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser Leu Ile Ser Ala Leu						
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Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp Ile Asp Lys Ile Leu						
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Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys Lys Met Ser Ile Ile						
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Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met Arg Lys Asn Leu Asp						
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Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp Asn Ala Leu Gln Glu						
		1140		1145		1150
Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro Gly Lys Met Asp Thr						

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 His Met Ile Tyr Arg Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly  
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 Lys Thr Thr Thr Gly Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn  
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 Lys Phe Asp Gln Val Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro  
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 Leu Gln Ala Ile Ala Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile

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Ala	Tyr	Val	Ser	Gln	Gln	Pro	Trp	Val	Phe	Ser	Gly	Thr	Leu	Arg	Ser
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Asp	Leu	Thr	Val	Ile	Gly	Asp	Arg	Gly	Thr	Thr	Leu	Ser	Gly	Gly	Gln					
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Lys	Ala	Arg	Val	Asn	Leu	Ala	Arg	Ala	Val	Tyr	Gln	Asp	Ala	Asp	Ile					
			500					505					510							
Tyr	Leu	Leu	Asp	Asp	Pro	Leu	Ser	Ala	Val	Asp	Ala	Glu	Val	Ser	Arg					
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His	Leu	Phe	Glu	Leu	Cys	Ile	Cys	Gln	Ile	Leu	His	Glu	Lys	Ile	Thr					
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Ile	Leu	Val	Thr	His	Gln	Leu	Gln	Tyr	Leu	Lys	Ala	Ala	Ser	Gln	Ile	560				
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Phe	Leu	Lys	Ser	Gly	Ile	Asp	Phe	Gly	Ser	Leu	Leu	Lys	Lys	Asp	Asn					
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Glu	Glu	Ser	Glu	Gln	Pro	Pro	Val	Pro	Gly	Thr	Pro	Thr	Leu	Arg	Asn					
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Arg	Thr	Phe	Ser	Glu	Ser	Ser	Val	Trp	Ser	Gln	Gln	Ser	Ser	Arg	Pro					
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Ser	Leu	Lys	Asp	Gly	Ala	Leu	Glu	Ser	Gln	Asp	Thr	Glu	Asn	Val	Pro					
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Val	Thr	Leu	Ser	Glu	Glu	Asn	Arg	Ser	Glu	Gly	Lys	Val	Gly	Phe	Gln					
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Ala	Tyr	Lys	Asn	Tyr	Phe	Arg	Ala	Gly	Ala	His	Trp	Ile	Val	Phe	Ile					
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Phe	Leu	Ile	Leu	Leu	Asn	Thr	Ala	Ala	Gln	Val	Ala	Tyr	Val	Leu	Gln					
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Asp	Trp	Trp	Leu	Ser	Tyr	Trp	Ala	Asn	Lys	Gln	Ser	Met	Leu	Asn	Val					
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Thr	Val	Asn	Gly	Gly	Gly	Asn	Val	Thr	Glu	Lys	Leu	Asp	Leu	Asn	Trp					
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Tyr	Leu	Gly	Ile	Tyr	Ser	Gly	Leu	Thr	Val	Ala	Thr	Val	Leu	Phe	Gly					
			725						730					735						
Ile	Ala	Arg	Ser	Leu	Leu	Val	Phe	Tyr	Val	Leu	Val	Asn	Ser	Ser	Gln					
			740					745					750							
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755																	
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Ile	Gln	Thr	Leu	Leu	Gln	Val	Val	Gly	Val	Val	Ser	Val	Ala	Val	Ala		
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Val	Ile	Pro	Trp	Ile	Ala	Ile	Pro	Leu	Val	Pro	Leu	Gly	Ile	Ile	Phe		
			820					825					830				
Ile	Phe	Leu	Arg	Arg	Tyr	Phe	Leu	Glu	Thr	Ser	Arg	Asp	Val	Lys	Arg		
		835					840					845					
Leu	Glu	Ser	Thr	Thr	Arg	Ser	Pro	Val	Phe	Ser	His	Leu	Ser	Ser	Ser		
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Leu	Gln	Gly	Leu	Trp	Thr	Ile	Arg	Ala	Tyr	Lys	Ala	Glu	Glu	Arg	Cys		
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Gln	Glu	Leu	Phe	Asp	Ala	His	Gln	Asp	Leu	His	Ser	Glu	Ala	Trp	Phe		
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Leu	Phe	Leu	Thr	Thr	Ser	Arg	Trp	Phe	Ala	Val	Arg	Leu	Asp	Ala	Ile		
			900					905					910				
Cys	Ala	Met	Phe	Val	Ile	Ile	Val	Ala	Phe	Gly	Ser	Leu	Ile	Leu	Ala		
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Lys	Thr	Leu	Asp	Ala	Gly	Gln	Val	Gly	Leu	Ala	Leu	Ser	Tyr	Ala	Leu		
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Glu	Lys	Glu	Ala	Pro	Trp	Glu	Tyr	Gln	Lys	Arg	Pro	Pro	Pro	Ala	Trp		
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Pro	His	Glu	Gly	Val	Ile	Ile	Phe	Asp	Asn	Val	Asn	Phe	Met	Tyr	Ser		
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Pro	Gly	Gly	Pro	Leu	Val	Leu	Lys	His	Leu	Thr	Ala	Leu	Ile	Lys	Ser		
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Gln	Glu	Lys	Val	Gly	Ile	Val	Gly	Arg	Thr	Gly	Ala	Gly	Lys	Ser	Ser		
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Leu	Ile	Ser	Ala	Leu	Phe	Arg	Leu	Ser	Glu	Pro	Glu	Gly	Lys	Ile	Trp		

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1045          1050          1055
Ile Asp Lys Ile Leu Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys
1060          1065          1070

Lys Met Ser Ile Ile Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met
1075          1080          1085

Arg Lys Asn Leu Asp Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp
1090          1095          1100

Asn Ala Leu Gln Glu Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro
1105          1110          1115          1120

Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val
1125          1130          1135

Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn
1140          1145          1150

Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr
1155          1160          1165

Asp Glu Leu Ile Gln Lys Lys Ile Arg Glu Lys Phe Ala His Cys Thr
1170          1175          1180

Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys
1185          1190          1195          1200

Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr
1205          1210          1215

Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln
1220          1225          1230

Leu Gly Lys Ala Glu Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg
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Trp Gly Phe Thr Met Leu Ala Arg Leu Val Ser Asn Ser
1250          1255          1260

<210> 539
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 539
Cys Leu Ser His Ser Val Ala Val Val Thr
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<210> 540

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Met Thr

<210> 545  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 545  
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Ser Val

<210> 546  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 546  
 Phe Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly  
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Thr Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg Met  
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<210> 547  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 547  
 Val Ala Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu  
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Ser Ala Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu  
                   20                  25                  30

Ala Phe Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys  
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Cys Arg Met Pro Arg Thr Leu Arg Arg Leu  
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<210> 548  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 548  
 Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu  
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Glu Cys

<210> 549  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 549  
 Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg  
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Gln Ala

<210> 550  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 550  
 Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe  
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<210> 551  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 551  
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<210> 552  
 <211> 2577  
 <212> DNA  
 <213> Homo sapiens

<400> 552  
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 tcataaccagt ccacggacta ttatgaacca caccacacag gaggaggtga gcactaggca 180  
 agccaaggaa gcttcacctg tacttacagc cacacgccat ggctcatatt acagcctgaa 240  
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 agagcttcca ctgattctac attatggata tgtgccgccg aagcaagcac aaagccctac 480  
 ttttacacat gcttagtgat gcttcatgga caaggcttgg ctctgttgag tccaactaac 540

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&lt;210&gt; 553

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 553

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Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys
          5                      10                      15

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Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly
          20                      25                      30

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Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr
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Glu Pro His His Thr Gly Gly Gly Glu His
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<210> 554  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 554  
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 Cys Ala Ala Glu Ala Ser Thr Lys Pro Tyr Phe Tyr Thr Cys Leu Val  
                   20                  25                  30  
 Met Leu His Gly Gln Gly Leu Ala Leu Leu Ser Pro Thr Asn Leu Pro  
           35                  40                  45  
 Glu Ile Leu Arg Phe Leu Phe Asn Gly Phe Leu  
       50                  55

<210> 555  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 555  
 Leu Gly Arg Phe Ser Leu Ser Cys Lys Ser Gly His Ser Arg Gly Gln  
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 Pro Gln Leu Gly Ala Thr Ala Gln Gly Lys Val His Met Gly Leu Ser  
                   20                  25                  30  
 Thr Ala Gln Gly Ser Ile Gln Asp Ile Lys Val Pro His Ser Ile Asp  
           35                  40                  45  
 Leu Val Ala Lys Lys Lys Lys Gln Thr Leu Ile Ser Phe Cys His Pro  
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 Ser Asp Pro Leu Glu Leu Leu  
       65                  70

<210> 556  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 556  
 Asn His Pro Glu Gln Gly Ser Ser Thr Pro Arg Pro Gln Thr His Thr  
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 Ser Pro Arg Thr Ile Met Asn His Thr Thr Gln Glu Glu Val Ser Thr  
           20                  25                  30  
 Arg Gln Ala Lys Glu Ala Ser Pro Val Leu Thr Ala Thr Arg His Gly

35                      40                      45  
 Ser Tyr Tyr Ser Leu Asn Ser Ala Ser Thr Gln Ile Ser Asp Asn Ile  
     50                      55                      60  
 Arg Asn Ser Leu Glu His Glu Pro Cys Cys Glu Leu Pro Ile Arg Arg  
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 Ile

<210> 557  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 557  
 Ser Leu Ser Ala Thr Pro Leu Thr Leu Trp Asn Ser Ser Asp Pro Leu  
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                                     20                      25                      30  
 Lys Gly Ser Leu Thr Met Lys Val Ser Ala Asn Ser Trp Leu Arg Cys  
                                     35                      40                      45  
 Gly Phe His Ile Arg Phe  
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<210> 558  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (1)...(77)  
 <223> Xaa = Any amino acid

<400> 558  
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                                     20                      25                      30  
 Phe Thr Cys Thr Lys Arg His Lys His Leu Gln Cys Ser Ser Val His  
                                     35                      40                      45  
 Leu Cys Lys Ile Pro Pro Arg Leu Lys Gly Arg Asp Lys Lys Lys Lys  
                                     50                      55                      60

Pro Ser Tyr Leu Ser Gly Val Leu His Ser Arg Ser Tyr  
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<210> 559  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 559  
 Thr Leu Pro Pro Leu Arg Ser Val Ile Thr Leu Glu Thr His Trp Ser  
 5 10 15

Thr Asn Pro Val Val Asn Cys Leu Ser Glu Gly Ser Arg Leu Cys Ala  
 20 25 30

Ser Tyr Glu Asn Leu Met Pro Asp Asp Leu Ser Leu Ser His Phe Ala  
 35 40 45

Pro Arg  
 50

<210> 560  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 560  
 Ile Gly Ser Leu Lys Gly Pro Thr Thr Ala Gly Ser His Cys Ser Gly  
 5 10 15

Glu Gly Ser Tyr Gly Thr Phe Tyr Cys Pro Arg Phe Tyr Thr Gly Tyr  
 20 25 30

Lys Gly Ala Ser Gln Tyr Arg Ser Gly Ser Lys Glu Glu Glu Thr Asn  
 35 40 45

Thr Asp Leu Phe Leu Pro Pro Leu  
 50 55

<210> 561  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (1)...(57)  
 <223> Xaa = Any amino acid

<400> 561  
 Val Leu His Leu Asp Gln Met Asn Asn Val Gly Ile Xaa Met Asp Lys

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 Gly Leu Lys Ser Pro Glu Ile Lys Asn Pro Ala Pro Thr Gly Thr Ser  
 20 25 30  
 Asn Leu Ser Cys Phe Leu Ser Xaa Phe Trp Leu Met Gln Gly Thr Asn  
 35 40 45  
 Ser Leu Pro Arg Glu Asn Tyr Leu Asn  
 50 55

<210> 562  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (1)...(59)  
 <223> Xaa = Any amino acid

<400> 562  
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 Ala Pro Met His Gly Ile Lys Asn Ser Ile Thr Ser Leu Ile Phe Leu  
 20 25 30  
 Ile Ser Tyr Leu Xaa Leu Glu Met Ser Ser Leu Ser Glu Ser Leu Val  
 35 40 45  
 Leu Ser Ser Gly Asp Tyr Val Leu Asp Thr Pro  
 50 55

<210> 563  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 563  
 Cys Phe Leu Phe Pro Tyr Leu Trp Leu Tyr Ala Gln Pro Leu Phe Pro  
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 Lys Gln Gln Pro Pro Ala Leu Ala Pro Gly His Pro Asp Phe Ile His  
 20 25 30  
 Thr Gln Asn Glu Gln Ile Asp Pro Ser Pro His Ile Gln Asn Leu Met  
 35 40 45  
 Trp Asn Pro His Leu Ser Gln Glu Leu Ala Glu Thr Phe Met Val Arg  
 50 55 60



Asp Pro Leu Arg Pro Leu Leu Val Phe Ser Leu Ala Asp Ile Arg  
 65 70 75

<210> 564  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 564  
 Ala Cys Ser Lys Gly Ser Glu Glu Phe Gln Arg Val Arg Gly Val Ala  
 5 10 15

Glu Arg Asp Gln Cys Leu Phe Leu Leu Leu Cys Tyr Gln Ile Tyr Thr  
 20 25 30

Val Arg His Leu Tyr Ile Leu Tyr Arg Thr Leu Gly Ser Arg Lys Ser  
 35 40 45

His Met Asn Leu Pro Leu Ser Ser Gly Ser Gln Leu Trp Leu Ala Pro  
 50 55 60

<210> 565  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (1)...(57)  
 <223> Xaa = Any amino acid

<400> 565  
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 20 25 30

Asn Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu  
 35 40 45

Tyr Ala Val Ser Ser Xaa His Asn Val  
 50 55

<210> 566  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 566  
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<210> 567
<211> 51
<212> PRT
<213> Homo sapiens

<400> 567
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Ser His Cys Ser Gln Ser Ser Ser Pro Leu Leu Trp Pro Leu Gly Ile
              20                      25                      30
Leu Thr Leu Ser Thr His Lys Met Ser Lys Leu Thr Leu Pro Pro Ile
              35                      40                      45
Phe Arg Thr
              50

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<210> 568
<211> 75
<212> PRT
<213> Homo sapiens

<400> 568
Lys Val Gly Glu Tyr Ile Leu Gln Ser Leu Leu Arg Ile Arg Lys Ile
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          20                      25                      30

Thr Glu Thr Pro Val Thr Thr Ile Leu Thr Ile Ile Ile Asn Leu Thr
          35                      40                      45

Cys Phe Gln His Ala Glu Ser Ser Tyr Leu Phe Tyr Pro Leu Ala Asp
          50                      55                      60

Phe Leu Leu Gln His Ile Ser Leu Gly Lys Leu
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<210> 569  
 <211> 4809  
 <212> DNA  
 <213> Homo sapiens

<400> 569  
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 aatggacttg cttcaaagtg gaggcaggca gatccttcag acgggtatat ggagccctgt 240  
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 gcacctactg actcacagg taggagtgc aaggtagaat tcatgtttta ttcattcttg 420  
 ggtctgtagc acccagcaaa gtgctcagta aatgcgcagt aattgatttg acctctgaac 480  
 aaatacacac tgtactaaga atctacacac cgaaagacaa aaacaagaca aatttgagtg 540  
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 cgctgctctc acataagggg tccaattaaa attgccagga ataaattccc ccggactttg 720  
 acttctcaag agctaagaag gtttgctgag tattctggca tgatgtttgg tgatcaaaca 780  
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<210> 570
<211> 951
<212> DNA
<213> Homo sapiens

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 <211> 819  
 <212> DNA  
 <213> Homo sapiens

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<210> 572  
 <211> 203  
 <212> DNA  
 <213> Homo sapiens

<400> 572  
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 atcaggtctc atgagaactc atg 203

<210> 573  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 573  
 Met Val Glu Gly Glu Gly Glu Ala Arg His Val Leu His Gly Gly Arg  
 5 10 15

Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg  
 20 25 30

Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu  
 35 40 45

Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu  
 50 55 60

Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala

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<210> 574
<211> 62
<212> PRT
<213> Homo sapiens

<400> 574
Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn
          5                                10                        15

His Gly Gly Arg Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln
      20                               25                          30

Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu
     35                             40                         45

Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala
    50                              55                      60
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<210> 575
<211> 76
<212> PRT
<213> Homo sapiens

<400> 575
Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp
          5                      10                      15
Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu
          20                      25                      30
Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly
          35                      40                      45
Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp
          50                      55                      60
Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys
          65                      70                      75

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<212> PRT
<213> Homo sapiens
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<210> 578
<211> 51
<212> PRT
<213> Homo sapiens
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<400> 579
Met His Phe Thr Phe Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu
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Leu Tyr Ile Arg His His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr
          20                      25                      30

Lys Lys Leu Asn Tyr Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His
          35                      40                      45

Ile Ala Lys Val Tyr Gln Pro His
          50                      55

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<400> 580
Met Glu Leu Arg Thr Lys Ala Leu Arg Thr Ala Gln Gln Leu Thr Ser
      5                      10                      15

Cys Val Thr Ala Leu Lys Ala Ala Gly Pro Pro Leu Thr Phe Trp Lys
      20                      25                      30

Gly Lys Trp Val Gln Cys Cys Leu Pro Leu Trp Gly Leu Leu Gly Ser
      35                      40                      45

His Ala Phe Tyr Ile Tyr Ala Val Asp Ile Phe Met Phe Pro Gly Ser
      50                      55                      60

Phe Ile His
      65

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<400> 581
Met Leu Glu Val Lys Phe Glu Val Ser Leu Arg Pro Thr Gly Asn Glu
          5                      10                      15

Thr Ala Gly Gln Thr His Gly Thr Gln Asp Lys Gly Ser Lys Asp Ser
          20                      25                      30

Thr Ala Ala Asp Ile Leu Cys Asp Ser Leu Glu Ser Ser Arg Pro Ala
          35                      40                      45

Ala His Ile Leu Glu Gly Lys Met Gly Thr Met Leu Ser Ala Thr Leu
          50                      55                      60

Gly Pro Ser Trp Val Thr Cys Ile Leu His Leu Cys Ser
          65                      70                      75

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```

<400> 582
Met Leu Phe Leu Gln Thr Ile Asp Thr Lys Cys Thr Gly Ile Glu Ile
      5                      10                      15

Asn Arg Asn Trp Ser Lys Val Trp His Thr His Ser His Val Asp Val
      20                      25                      30

Lys Leu Cys Leu Glu Phe Leu Cys Gly Val Trp Phe Gly Leu Gly Phe
      35                      40                      45

Leu Gly Val
      50

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<400> 583
Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
           5                      10                      15

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
          20                      25                      30

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly

```

35

40

45

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys  
 50 55 60

&lt;210&gt; 584

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 584

Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys  
 5 10 15

Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg  
 20 25 30

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro  
 35 40 45

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly  
 50 55 60

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys  
 65 70 75

&lt;210&gt; 585

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 585

Met Val Tyr Arg Phe Gly Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu  
 5 10 15

Ala Ser Leu Gly Ser Ser Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp  
 20 25 30

Arg Gln Ala Asp Pro Ser Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu  
 35 40 45

Leu Phe  
 50

&lt;210&gt; 586

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 586

Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly

5 10 15  
 Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser  
 20 25 30  
 Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser  
 35 40 45  
 Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe  
 50 55 60

<210> 587  
 <211> 1408  
 <212> DNA  
 <213> Homo sapiens

<400> 587  
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<210> 588  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 588  
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 5 10 15  
 Leu Gln Phe Arg Gln Tyr Asn Lys Ser Val His Glu Val Asn Leu Lys  
 20 25 30



&lt;213&gt; Homo sapiens

&lt;400&gt; 590

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Met Leu Leu Ile Val Ala Arg Pro Val Lys Leu Ala Ala Phe Pro Thr
      5                      10                      15

Ser Leu Ser Asp Cys Gln Thr Pro Thr Gly Trp Asn Cys Ser Gly Tyr
      20                      25                      30

Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp Thr Asn Thr Cys Lys
      35                      40                      45

Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr Val Thr Cys Val Cys
      50                      55                      60

Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val Cys Gly Ser Asn Gly
      65                      70                      75                      80

Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln Ala Ala Cys Lys Gln
      85                      90                      95

Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser Cys Ala Thr Asp Ala
      100                     105                     110

Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly Ser Gly Glu Thr Ser
      115                     120                     125

Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln Phe Gly Ala Glu Cys
      130                     135                     140

Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys Asn Ile Asp Cys Ser
      145                     150                     155                     160

Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp Gly Lys Ser Tyr Asp
      165                     170                     175

Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln Lys Gln Glu Lys Ile
      180                     185                     190

Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn Thr Thr Thr Thr Thr
      195                     200                     205

Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp Tyr Ala Glu Asn Ala
      210                     215                     220

Asn Lys Leu Glu Glu Ser Ala Arg Glu His His Ile Pro Cys Pro Glu
      225                     230                     235                     240

His Tyr Asn Gly Phe Cys Met His Gly Lys Cys Glu His Ser Ile Asn
      245                     250                     255

Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly Tyr Thr Gly Gln His
      260                     265                     270

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Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val Val Pro Gly Pro Val  
275 280 285

Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile Gln Ile  
290 295 300

Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys Pro Arg  
305 310 315 320

Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr Ser Ser  
325 330 335

Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile  
340 345

<210> 591

<211> 565

<212> DNA

<213> Homo sapien

<400> 591

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<210> 592

<211> 188

<212> PRT

<213> Homo sapien

<400> 592

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		20						25					30		
Lys	Asn	Lys	Phe	Asp	Ile	Thr	Trp	Lys	Gln	Thr	Lys	Asn	Ile	Val	Gln
		35					40					45			
His	Cys	Thr	Gln	Cys	Gln	Ile	Leu	His	Leu	Ala	Thr	Gln	Glu	Ala	Arg
		50				55					60				
Val	Asn	Pro	Arg	Gly	Leu	Cys	Pro	Asn	Val	Leu	Trp	Gln	Met	Asp	Val
65					70				75					80	
Met	His	Val	Pro	Ser	Phe	Gly	Lys	Leu	Ser	Phe	Val	His	Val	Thr	Val
			85					90						95	
Asp	Thr	Tyr	Ser	His	Phe	Ile	Trp	Ala	Thr	Cys	Gln	Thr	Gly	Glu	Ser
			100				105						110		

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Thr Ser His Val Lys Arg His Leu Leu Ser Cys Phe Pro Val Met Gly
      115                      120                      125
Val Pro Glu Lys Val Lys Thr Asp Asn Gly Pro Gly Tyr Cys Ser Lys
      130                      135                      140
Ala Phe Gln Lys Phe Leu Asn Gln Trp Lys Ile Thr His Thr Ile Gly
145                      150                      155                      160
Ile Leu Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Gly Thr Asn Arg
      165                      170                      175
Thr Leu Lys Ala Gln Leu Val Lys Gln Lys Lys Lys
      180                      185

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<210> 593
<211> 271
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

```

```

<400> 593
actttatggt cnagtgcana aancncctg gattgccacc ntactctcag ggctgtgant      60
tgtgcnccca nagcaacctg ggcacgcggg gacagggggg ccnacaattg agggagcggg      120
gtccctagct ggggtctata catgncnggg naaggggengc tgagtnccat nagcaaagga      180
nctagnatnt gcggggggtgc ggctggggc taccctttna agcatccntn gatccactcc      240
angaanccng gggtagncag gtttnccaac a                                  271

```

```

<210> 594
<211> 376
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(376)
<223> n = A,T,C or G

```

```

<400> 594
cctttggggg nggggggaac ctttaccatt gtnccecttt atttcatttg gttinggggtc      60
gcgccctcnn gggccaacaa agttatcgtn nttgaagaga anattttttt ggnttngncc      120
cgattaagcg ncaaagtgtg agcaaaangc cgtgccactt gtggcgtagc tncgtcgggt      180
cgattcgacg acaaggcgtn gcgcgntanc gttagtctcn aatngaccn gtggcatgag      240
cccacgangg nttegtgtcg tcacatggnc tctagacata acgcnncnccn ttttttncag      300
agggggntgc cgcccttagg gaggnagggg tggggacact agccaancca nantctnacc      360
ccattgaaga aaagggn                                  376

```

```

<210> 595
<211> 242
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature

```

<222> (1)...(242)

<223> n = A,T,C or G

<400> 595

```

agncgtgctgn tcgtnccectn tatgtggctt catnntgagg acaanagtng cactgagget      60
tgnngnatgcc aggcaaggnc aagctggctc aaaaagcatc caccacctc tгнаanggg      120
atgccangag cangtgcacc agtcccaact angagnccn ggcattgtac atcttcttcc      180
acccctnaaa ntttgngcta caangnecat ttttctttt ctcttaaggg ncnctggct      240
tc                                                                    242

```

<210> 596

<211> 535

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(535)

<223> n = A,T,C or G

<400> 596

```

accagttgga tactgctaaa nagatattta tgcagcctca tatgttaagt cgtatatttt      60
gaaagctttt taaatttttt ctttaagaag atttttagatg cttatcactg agtaccagag      120
ggatgtaggc tgatgccctt atcaacaaag tcagggactg tggcacacaa ggattgacta      180
ctgcagacac ggccacaatg ctacctctag agggcctgaa tccccctgcc ctctctgggtg      240
gggagaaggg ctggcagagc cattagcatg ggctccggcc aatcctggcc actttgacac      300
tcctgggtgct gaccacaggt cctggaggaa gggatgaggt gggcagtaga gatgctcagg      360
gcagtggccc ctttccatcc acactggaac tatttcagta ttttaccacc aattcagcca      420
ttcctttgtg cgctggctga acatcagccc tgctccaggt ctcagtttcc cctttgtaaa      480
gggaaaagctc tggattcagg gagtgatgaa gaggtcatca tgggtcttgag aattc      535

```

<210> 597

<211> 257

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(257)

<223> n = A,T,C or G

<400> 597

```

tttcnatacc caaaantacc ccatattang accanacatt tgtctnggaa aaattaccat      60
tntntaacnt ttgggccacc tgagannaaa tgggtgtaat ncatgataag atggancagn      120
atnctcttta agatnngatn agaccccggt tttcacggaa catatccaag nacccaatag      180
gnaacaagcc acggngggag tcacaaacat atattcttta ctctcataat ccgtnncaaca      240
naactnttgn acttgac                                                                    257

```

<210> 598

<211> 222

<212> DNA

<213> Homo sapien

<220>





```

ttttttcttaa atatcaccta ttaggttgaa aacctgaaat tgcagctttc tgtagaaatg 120
gcggaagaca aactaacatt tttaaagcgc tctcatttag ctctgatgag tactacaccc 180
ctnatattct tctgatacta aaataatttt cctagtgtag tctaaaacttt tttaaaaaga 240
catgtaatcc gcggagttag taactcaaaa cgagtgcac tnggaagtat cgcagccggt 300
nctggatnaa attcccagct tgctngett ctnagccggg gggcggtnaa aaaaacatct 360
gcagcccngg ggnaaaaacc ttgcattgt tcttacgtgt ttacgttatt ttatttccct 420
nnagcaaggc nggganttgg ggactcgaaa tggtagcgtt gggctgggga tcgcccttgt 480
tacataaaaag ncgtccagaa gagggacggt tacaggcngg gantccaaa ggtcagtcct 540
tgccatt 547

```

<210> 602

<211> 826

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(826)

<223> n = A,T,C or G

<400> 602

```

cggggggnnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg 60
taccattcga gtccctactc ctgccttgct ctagggaaat aaaataacgt aaacacgtaa 120
gaacaatgcg aaagcggttt ctcccttagg ctgcagattg tcttcttcac cgcccttgc 180
tagctagcta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca 240
ctcgttttga gttacaaaact ccgcggatta catgtctttt taaaaaagtt tagactacac 300
tagggaaaat tatttttagta tcagaagaat atcagggggg gtagtactca tcagagctna 360
atgagagcgc tttaaaaaatg ttagtttgct ttccgccatt tctacagaaa gctgcaattt 420
caggttttca ncctaatagg tgatatntaa gaaaaaaaaa acaatcgcan atagccact 480
gcttttacia atcatttttc tttcttaggt atagcctgtc aggtggccta atgtattttt 540
gacatctcta ggaattttta tagaccagaa atgggtgccg gagatatgcc tgcactaatc 600
ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcacgaatga 660
aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg 720
cttctcttct taaaatngaa aaaaaaattg tttaaaccca naaggtctga ataccaagc 780
nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc 826

```

<210> 603

<211> 817

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(817)

<223> n = A,T,C or G

<400> 603

```

nnangacttt tgtggtntta tacaattntt ttttctattt ctatgaagag aaagccacag 60
agtcttaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120
tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt 180
agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa 240
aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca 300
gtggggctat ttgcgattgc tttttttttt tcttaaatat cacctattag gttgaaaacc 360
tgaaattgca gctttctgta gaaatggcgg aagacaaaact aacattttta aagcgtctct 420

```

```

atttagctct gatgagtact acacccctga tattcttctg atactaaaat aattttccta 480
gtgtagtcta aactttttta aaaagacatg taatccgcgg agtttgtaac tcaaaacgag 540
tgcacttagg aggtatcgca agccgtttct ggattaaatt cccagctagc ttgcttgctt 600
agcaggggcg ggnaanaaag acatctgcag cctaggggaag aaaacctttc gcattgttct 660
tacgtgttta cgttattttta tttcctanaa caaggcngaa ttgggactcg aatggttcag 720
ttgggggtggg ggatcccctg gtncataaaa ngtcanaaag anggtacagg cggaacncca 780
agggtcgtcc tgcatttana ctcggaattt tgggtgcc 817

```

```

<210> 604
<211> 694
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(694)
<223> n = A,T,C or G

```

```

<400> 604
cttttcaaat cattttttnct cttctaggta tancctgtca ggtggcctaa tgtaattttt 60
gacatctcta ngaattttta tagaaccaga aatgggtgcc agagatatgc ctgcactaat 120
cttaagtggg gatattatgta tttctcaagc aagtgattaa agcaaaacta ggcacgattg 180
aaatcaagat cttttaggca anaaagtcac gatgagtttt agaattattt taggactctg 240
tggttttctc ttcatagaaa tagaaaaaaa aattgtataa aaccacaaaa ggtcctgaat 300
agccaaagca aactganca aaaagaacan agcaggggaag caacacacta ccngaattca 360
aattatacta ccagggtgta gtaacccaaa cagcattcta ttggcataaa atagacacca 420
agaccaatgg ancagaataa agaaccacac aaataaatcc atatatntac cgccanctga 480
ttatcaataa cnaacaccaa gaacatatnt taagggaant nctattcaat aantagtgtc 540
ggnaaaaact gggaaatcca tatgcagaaa naatgaaact agaccctat cctcaccat 600
acgcaaannt caacttcgga atgggattac aaaacttaag acattccaac ccaagaaact 660
atnaaancta ctattaagaa aacagatcnc nccc 694

```

```

<210> 605
<211> 678
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G

```

```

<400> 605
taaaaatcta gactacacta ggaaattatt ttantatcag aagaatatca ggggtgtagt 60
actcatcana gctaaatgag agcgctttta aaatgttagt ttgtcttccg ccatttctac 120
agaaagctgc aatttcaggt tttcaaccta atagggtgata ttttaagaaaa aaaaaagca 180
atcgcaaata gccccactgc tttacaaaat cattttttct cttctaggta tagcctgtca 240
ggtggcctaa tgtaattttt gacatctcta ggaattttta tagaaccaga aatgggtgcc 300
agagatatgc ctgcactaat cttaagtggg gatattatgta tttctcaagc aagtgattaa 360
agcaaaacta ggcacgattg aaatcaanat cttttaggca agaaagtcac gatgagtttt 420
anaattattt taggactctg tggttttctc ttcatagaaa tagaaaaaaa aaattgtata 480
aaaaccacaa aaggctctga atagcccaaa gcaacactga acaaaangaa caaagcagga 540
agcaacacac taccggaatt caattatact accaagggtg antaaccaaa acagcattct 600
attgggcata aaatagacca aagaccagtg ggaaacagaa taaagaancc caaaataaat 660

```

cctatatatta cngcccnc

678

<210> 606

<211> 263

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(263)

<223> n = A,T,C or G

<400> 606

gtggggtcng	cancagccaa	ctcagcttcc	tttcgggctt	tgtagcaga	eggatcatcc	60
tctagtccac	tgtgntcaaa	ttccattgtg	tgggggccnc	tcgcctcggc	canagatctg	120
agtancana	cntgtcccca	ctgaggtgcc	ccacagcngn	ttgtnttcag	cangggctna	180
caactcgacc	ggcagcgnan	ggctggcaga	antgngcgcc	tnnctcattc	ctacgcngtn	240
ngccgcagga	aggangacag	gcc				263

<210> 607

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 607

ccatgtgggt	cccggttgtc	tt	22
------------	------------	----	----

<210> 608

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 608

gataggggtg	ctcaggggtt	gg	22
------------	------------	----	----

<210> 609

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 609

gctggacagg	gggcaaaagc	tggggcagtg	aaccatgtgc	40
------------	------------	------------	------------	----

<210> 610

<211> 27

<212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 610  
 ccttgtccag atagcccagt agctgac

27

<210> 611  
 <211> 46  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 611  
 gatagagaaa accgtccagg ccagtattgt gggaggctgg gagtgc

46

<210> 612  
 <211> 40  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 612  
 gcacatgggt cactgcccga gcttttgccc cctgtccagc

40

<210> 613  
 <211> 38  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 613  
 gccgctcgag ttagaattcg gggttggcca cgatggtg

38

<210> 614  
 <211> 53  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 614  
 cggcgggcat atgcatcacc atcaccatca catcataaac ggcgaggact gca

53

<210> 615

<211> 46  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 615  
 gcactcccag cctcccacaa tactggcctg gacggttttc tctatc 46

<210> 616  
 <211> 1350  
 <212> DNA  
 <213> Homo sapien

<400> 616  
 atgcatcacc atcaccatca catcataaac ggcgaggact gcagcccgca ctgcagccc 60  
 tggcaggcgg cactgggtcat ggaaaacgaa ttgtttctgct cgggcgtcct ggtgcatccg 120  
 cagtgggtgc tgtcagccgc aactgtttc cagaactcct acaccatcgg gctgggcctg 180  
 cacagtcttg aggccgacca agagccaggg agccagatgg tggaggccag cctctccgta 240  
 cggcaccag agtacaacag acccttgctc gctaacgacc tcatgctcat caagttggac 300  
 gaatccgtgt ccgagtctga caccatccgg agcatcagca ttgcttcgca gtgccctacc 360  
 gcggggaact cttgcctcgt ttctggctgg ggtctgctgg cgaacggcag aatgcctacc 420  
 gtgctgcagt gcgtgaacgt gtccgtgggtg tctgaggagg tctgcagtaa gctctatgac 480  
 ccgctgtacc accccagcat gttctgcgcc ggccgagggc aagaccagaa ggactcctgc 540  
 aacggtgact ctggggggcc cctgatctgc aacgggtact tgcagggcct tgtgtctttc 600  
 ggaaaagccc cgtgtggcca agttggcgtg ccagggtgtc acaccaacct ctgcaaattc 660  
 actgagtga tagagaaaac cgtccaggcc agtattgtgg gaggtgga gtgcgagaag 720  
 cattcccaac cctggcagggt gcttgtggcc tctcgtggca gggcagtctg cggcgggtgtt 780  
 ctggtgcacc cccagtgggt cctcacagct gccactgca tcaggaacaa aagcgtgatc 840  
 ttgctgggtc ggacagcct gtttcatcct gaagacacag gccaggtatt tcaggtcagc 900  
 cacagcttcc cacaccgct ctacgatatg agcctcctga agaatcgatt cctcaggcca 960  
 ggtgatgact ccagccacga cctcatgctg ctccgctgt cagagcctgc cgagctcacg 1020  
 gatgctgtga aggtcatgga cctgccacc caggagccag cactggggac cacctgctac 1080  
 gcctcaggct ggggcagcat tgaaccagag gagttcttga ccccaaagaa acttcagtgt 1140  
 gtggacctcc atgttatttc caatgacgtg tgtgcgcaag ttcacctca gaaggtgacc 1200  
 aagttcatgc tgtgtgctgg acgctggaca gggggcaaaa gctggggcag tgaaccatgt 1260  
 gccctgcccg aaaggccttc cctgtacacc aaggtggtgc attaccggaa gtggatcaag 1320  
 gacaccatcg tggccaaccc cgaattctaa 1350

<210> 617  
 <211> 449  
 <212> PRT  
 <213> Homo sapien

<400> 617  
 Met His His His His His His Ile Ile Asn Gly Glu Asp Cys Ser Pro  
 1 5 10 15  
 His Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu Phe  
 20 25 30  
 Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Ala His  
 35 40 45  
 Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu Glu  
 50 55 60

Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala Ser Leu Ser Val  
 65 70 75 80  
 Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu  
 85 90 95  
 Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile  
 100 105 110  
 Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser  
 115 120 125  
 Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys  
 130 135 140  
 Val Asn Val Ser Val Val Ser Glu Glu Val Cys Ser Lys Leu Tyr Asp  
 145 150 155 160  
 Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln  
 165 170 175  
 Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly  
 180 185 190  
 Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala Pro Cys Gly Gln Val  
 195 200 205  
 Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Glu Trp Ile  
 210 215 220  
 Glu Lys Thr Val Gln Ala Ser Ile Val Gly Gly Trp Glu Cys Glu Lys  
 225 230 235 240  
 His Ser Gln Pro Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala Val  
 245 250 255  
 Cys Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His  
 260 265 270  
 Cys Ile Arg Asn Lys Ser Val Ile Leu Leu Gly Arg His Ser Leu Phe  
 275 280 285  
 His Pro Glu Asp Thr Gly Gln Val Phe Gln Val Ser His Ser Phe Pro  
 290 295 300  
 His Pro Leu Tyr Asp Met Ser Leu Leu Lys Asn Arg Phe Leu Arg Pro  
 305 310 315 320  
 Gly Asp Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu Pro  
 325 330 335  
 Ala Glu Leu Thr Asp Ala Val Lys Val Met Asp Leu Pro Thr Gln Glu  
 340 345 350  
 Pro Ala Leu Gly Thr Thr Cys Tyr Ala Ser Gly Trp Gly Ser Ile Glu  
 355 360 365  
 Pro Glu Glu Phe Leu Thr Pro Lys Lys Leu Gln Cys Val Asp Leu His  
 370 375 380  
 Val Ile Ser Asn Asp Val Cys Ala Gln Val His Pro Gln Lys Val Thr  
 385 390 395 400  
 Lys Phe Met Leu Cys Ala Gly Arg Trp Thr Gly Gly Lys Ser Trp Gly  
 405 410 415  
 Ser Glu Pro Cys Ala Leu Pro Glu Arg Pro Ser Leu Tyr Thr Lys Val  
 420 425 430  
 Val His Tyr Arg Lys Trp Ile Lys Asp Thr Ile Val Ala Asn Pro Glu  
 435 440 445  
 Phe

&lt;210&gt; 618

&lt;211&gt; 385

&lt;212&gt; DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(385)

<223> n = A,T,C or G

<400> 618

ctgtgctgag	aaccaaagc	tatgancact	gcttttccaa	atgtccataa	naccaacatt	60
tttatcacta	ccaccatcac	ctgggagctc	nttagaaagc	tagtctcccg	ggcaccaccc	120
tggcctactg	aacctaattg	gcatttaaca	agattnacgt	ngaaatctgc	aaagcacagg	180
ggcngataac	agtaccacct	gntctgggtc	ctancccan	gacccttaca	gtctaactgg	240
gacacaaggg	cttnaaatca	aattgcctat	cattaagata	tacaanganc	ntgagaaact	300
gctncaacta	tntattaagg	ngctctaaga	cttagaaacn	aaangcantg	ctgagangat	360
tcaaatatga	ngggggncac	tttnc				385

<210> 619

<211> 869

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(869)

<223> n = A,T,C or G

<400> 619

gatatcccg	gaattcgcg	ccgcgtcgac	ctctacttgt	ttagacataa	atgcagtcta	60
gcattaaaga	tcctttaaaa	aaatgttttc	ccaatggtta	aaagacaagc	tcaaataaat	120
gaactctcat	acatatgcc	aaattgatga	gtagataaat	atttcagtag	gtagttacta	180
gctttctgtg	tatgagtaaa	catatgggag	aaatttaaaa	cactaaagta	gactcaatga	240
aagcatagta	tcctatgtat	tcgtttttca	gaaatgtcta	atgaaggaag	gaaacaatga	300
atgaatgcc	ttattcctct	tagagtgtctg	ggacatgggt	ttgcctgaaa	acttcatgtg	360
aattttatat	tttgctacac	attacaccca	tcttagactt	atacgtataa	gacataaggc	420
atatcttatg	tcttacatgt	ataataatct	aagcagaaca	aaaaataacg	aaatattttc	480
ttccccaat	ttttgagaca	gatggatttt	ccggaaagat	gtgttttagct	tttaatcctg	540
tggttttgtg	taccacctgg	cacactagag	tggtgtctcta	attcagtgag	ttgtaactct	600
gggtgaacag	tggaaatact	agggtagatt	ttaaaaatgc	taatgctcgg	gcctcgctga	660
agaccaaatt	aattggaatc	tctgnnggng	gnattgatct	ttttataatc	tttctanang	720
attctaattg	gcttccaggg	atgaaaacn	ctgntggagc	tnggaacctt	ccttttagttt	780
ggagaaaccc	cgatgaggg	ntnttaggcn	ccgcctnttt	ttggcctggg	cttccccct	840
tatntnttt	tgggaangnc	cnaattttt				869

<210> 620

<211> 339

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(339)

<223> n = A,T,C or G

<400> 620



```

gngcgggcct cncctgctt gctctcgtg ccgacgtct tttccacca gctgtaggan      60
aagcccgaag accactggtc ccccggttag cccaagtacc actggtcctc ctgggtcctg    120
acgtncggg tcttctcgt ggctagact gccagcttcg gagacccctc agccccctcc    180
cgcttttctc caccacagga ggccatcagt agcgagctac tgccctcgcc acaacctccc    240
agcangatag cccgcggttt ccaatctgcg aaaggaggac cgccnagccc gaaatgccna    300
gccagcnat cactgccacg ccgagccnag cgctcgtgc      339

```

```

<210> 621
<211> 267
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

```

```

<400> 621
gggngcatg gtcccnggta gccaaagtaca tggctcctct ggctcctgac gctacgggtc      60
ttcctcgtgg cgtagactgc cagcttcgga gacccctcag cccctccccg cttttctcca    120
ccccaggagg ccacacagtag cgagctactg cctcgccac aacctcccag caggatngcc    180
cgcggtttcc aatctgcgaa aggaggaccg ccnagccaga aatgccnagc cnagcgatca    240
ctgccacgcc naggcnagcg ctctgtgc      267

```

```

<210> 622
<211> 847
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(847)
<223> n = A,T,C or G

```

```

<400> 622
cttangntgt cgactgacgt catgcatgan ttaaagcaga ggtttggtga aatttatgaa      60
aaatacaaaa ttccggcttg tcctgaggaa gagccactac ttgataactc tacaagagga    120
acagatgtga aggatattcc ctttaatttg acaaataaca tacctggttg tgaggaagaa    180
gatgcatctg aaatatctgt ctacgtggta ttcgagacat ttctgaaca aaaagaacct    240
agtctcaaaa atatcatcca tccatactat catccgtact ctgggtccca ggaacatggt    300
tgccagtcac cttctaagct tcatttacat gaaaataaat tagactgcga caatgataac    360
aaactaggca ttggacatat ttttagtaca gataacaact ttcataatga tgcaagcact    420
aagaaagcaa ggaaccacga agtggttacg gttgaaatga aagaagacca agagtttgat    480
ttgcaaatga caaaaaatat gaacaaaaat agtgacagtg gcagtacaaa taactataaa    540
agcctgaaac cttaaattaga aaatctgagt tctttaccac cagattctga cagaacatca    600
ggaagtatat ctacatgaag aattacagca agacatgcc aagttttaag aatgangtca    660
acacattaga aanaagantt ctgggctttg aagaaagaaa atgttccact tcataaagaa    720
ggttgaaaga agaatgggag agccnngaant tttttgcccn gaaattttcg ggaacctac    780
tggtatgggtc nactggttgg ccatgaatga ataattggact aatcnnccaa ttctnngga    840
agggaat      847

```

```

<210> 623
<211> 681
<212> DNA

```

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(681)

<223> n = A,T,C or G

<400> 623

aaaactgtac	tgcgcgctg	catgtcgaca	ctagtggatc	caaagaatcg	gcacgagcga	60
aaangctcan	gcagcccggc	tgcccgccgc	cgctcctccc	cccaggaaag	ccaangtggg	120
ngctgatgtg	gctgcangag	ctcgtttcac	agccccctcan	gtgganctgg	ttgggccgcg	180
gctgccangg	gcggaagtgg	gtgtccccc	gtctcagccc	caaggctgcc	cctcacaag	240
cactgggtgg	ttgcctccac	tgccaccttg	ggctccgaac	ccgctcccct	gctgtggang	300
cccacogtgg	gaatccaggt	cccaggtgg	actgcctgcc	ttgccctcac	tgccactct	360
gcccacactt	ccctgcctag	anaccgggaa	ggggctgtgt	cggtantgg	gcccacotgg	420
atgtggcagc	accgactgtg	gggggtggacc	tggccttgcc	gggtgcaaaa	gtgggggccc	480
ngggaaaaagc	acctgaagtg	gccctgaaaa	atccccctt	aatttttccc	caatttgggg	540
ctcnaacaaa	aggaaattgc	tgaagccaan	ggtaccaagg	tcacccctaa	ggccaggggtg	600
aaaaggtccc	aaaattccaa	tccccacnt	ttgggcttnc	ctcttggaac	cccggtcccc	660
tctcntgaan	ttttaaaaaa	n				681

<210> 624

<211> 661

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(661)

<223> n = A,T,C or G

<400> 624

attggtctta	ctgtaccacc	gggtggaaat	cgatggccgc	ggcgtctaaa	tatccgattt	60
tttttttttt	tctctttctg	actgtccatg	gacaaatgaa	actaacttaa	tctaactaaa	120
aaacacaact	atattttgaa	gattttctat	ctgcactcaa	ggacactttc	cacncgggtg	180
ttgttacctt	ttggtcttgt	ctctgaacat	gaaattnatc	tcaagggatt	ngatttctgg	240
acctcctatt	cctgctatgg	gtttgatatt	tcttgggctc	cagggccact	gttgcatggg	300
gntgacagnt	acctcctagc	ccatanccctc	ctatcttggg	aaacaaacct	aacaactacg	360
tgtaccttcc	atagatctct	gattgagctc	cagtatnccg	ttgctcatgg	gcgattcact	420
tgaatccgtg	attggtgcca	acaatcctga	ctcatggggn	aatggatcct	atcacgttcc	480
cctgattngc	aacccttgta	tacatanatc	taatcgcata	gaatctagcn	tnggntatgc	540
gcggctacgc	tatcagggnt	tgntaactat	ngcatggcta	cgaancctga	tcatgatcna	600
gggtcatgga	ctcttatcag	gggggttggg	ccngcttctc	ttttcnnacc	ttggtaaaac	660
c						661

<210> 625

<211> 181

<212> DNA

<213> Homo sapien

<400> 625

gcaacaatca	gatcatgtta	aagtaaactct	ccattgccct	ggatcacttc	aggatttaat	60
tgtccaagga	gagcagggtt	ctcctgtgaa	aaaaagggtg	ggaaatgttt	gagagtaaaa	120
aatacaaaat	tcaaccggtc	gaaaatacac	cactccattc	agtgtctctac	cccataagc	180

```

c                                                                 181

<210> 626
<211> 181
<212> DNA
<213> Homo sapien

<400> 626
gcaacaatca gatcatgtta aagtaaatct ccattgccct ggatcacttc aggatttaat      60
tgtccaagga gaggcagggt ctcctgtgaa aaaaagggtg ggaaatgttt gagagtaaaa      120
aatacaaaat tcaaccgggt gaaaatacac cactccattc agtgctctac ccccataagc      180
c                                                                 181

<210> 627
<211> 813
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(813)
<223> n = A,T,C or G

<400> 627
accaagctgg agctcgcgcg cctgcagggtc gacactagtg gatccaaagt gaacgtgaag      60
gtgagcagag gagaacttgc gatggcaaag ttaaaaacaa gaggagatga tggctcttgg      120
gtggcacagg atgttaaaaa aattctcctg tccttaagga gttactgcta tttgagtaat      180
gtgccacttc cctacatagc cttctatgca gaaatgctat atttccactt cacaaccag      240
aacgtgcatt ttattttaca tttagaggag gaacaaacaa ccagaaggca aaaactggtg      300
cattattttt tgcaattctc ttggaaagag ttcgttttta acttctgctc agacagcaca      360
caactactgg gaatatattt taatttcaaa tctgatgtgt gacatctggt aactcattta      420
ttgctaatga agttttcaca ggaagcagca gtcaccagta gctcatctta tttttcagtt      480
ggcaaagtgt tgtttacctt ttattggcct gcacgggtgt ctcttatcac aggatattta      540
attagaaaac gcaagtagcc taacatagaa nagaaatgga gtggtagata atagtagata      600
gaatggctaa atatttttat tacagtgatg taatatcact gnaatttatg gttaaaaatt      660
atgtaatact caaaagggaat tctcagactg gcgaaacagc tggnaacag ctntcacagg      720
gctttanact cctnttgagc tttccccctg ntggacttta gtcttccttt tacncccgna      780
gttnccattn nttaccaatt gtnccgggaa ana                                                                 813

<210> 628
<211> 646
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G

<400> 628
tttggngngn ggtgtctcnt ttgggtggac tttttgggtc gtagggcccc aaggccgtta      60
atcccgtaat aacggaagac gaagaagagt cagaagagtg cttctataag gatcgggacg      120
agactacctt agaggaataa aggaaaaaag cagaggagga agagtggtag aaggagtcag      180
aagaaaccca cacgtcgttc tgaacctgga gccttatcaa aaaggtctag ataaacgata      240

```

```

gcgatctcga tatcgagctc aagaggtagg tttagagact tctcgtcctc gagagcgaaa 300
tggaagatct cgacgacgat aagaagttaa agtgtagagg gtgcttgagg agcgcgaggga 360
aggattctgc ggagggaccc atcgacgtag agacttgaag gcctactaag gtccacaaga 420
agcccggtct tttctccgaa tggtcggagc gtacagtatg cgacgtcgat cggcagacaa 480
gctggcggtg gactcgaagt gttcgggcca atcgacttat aatagtcgag cgctagtaac 540
gtaggaacac gaagagtagt cgaaagaaaa cgtttagtga gggaaaagat tagggaaaaa 600
ggagaggctt aataactaag acacttgagg ctagggccaa cgcgaa 646

```

```

<210> 629
<211> 617
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(617)
<223> n = A,T,C or G

```

```

<400> 629
gccccnccc cctcctngg gcttatnggg acagaccac gtagtactct aaatcttctc 60
ctacgccgga caacggaccc tataccaatt cgaatcttgg aactccgac cgccggattc 120
tcttccctt tcggcttccc cttctgtctg gtacccctcc ctagtctctt cctacacctt 180
cgtaccgtcg atatatagtc gcgcgggact agcctattta ggtgtcctag actcgttatt 240
gatccactca ttagtctagt actatgcgtc acgtatctta gttgcctaag agggagatta 300
aatcctccac aagttccgac gaattcctgg actctcgtac tagcaaaactt tcttatgagg 360
cttccttgta tatcttctgg atgtttctcg tgtcccggtc ctccgtact actagagctc 420
cttgccctat ctctagaagt agaggactct cgggttcggt ctccaaatct agcgctagag 480
ctatcgctac ccgctcgatt cccccagcgg aatcttgaaa cctgaggtag tacacaaacc 540
ctcncatct tccctcgggt gctccttctt ctcctcccc cttcccgctt tctcgggaan 600
gaatctactt tanccttc 617

```

```

<210> 630
<211> 644
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(644)
<223> n = A,T,C or G

```

```

<400> 630
cnntcggent gggttttntt ctgagnnncc ccccccccc ccccccaaaa cttacaccca 60
ccaaacactt tccgccccct acctaggaga cattagaagg gtttaggctt cggcgatatag 120
taaagtcctc tacctcgga gtagagaatt cggtatattaa attcagggtt agaggctcgc 180
tcggttagatt tatagtttag gtttagaatc ggaaaccttc gatcttctt agaagggtaa 240
taagtgaggc cctaaatccg tctaaccaag gcgttaaggc cgtaccta acctagtctt 300
atcttctatc aggcgcacca atataggtag gttctacttt cgtataggcc ttaagggaata 360
gttcggtagt tatogaaggc actcctctct aggetaggct tttctcagtc ttagtactcc 420
gggaccgtcg tcgcanaaat atcgatggac ggtagggtat tccgcgttac gcgtcgggct 480
agggatatag agcgaattat cggcgagagg cggtcgctan gaatcgggat caatatgntg 540
ttctttaccc tacggatatc ggagaaaaac ataaaacctt ctnaccangg ataagggtatt 600
atcggacccc taaaataaca gtaacattta gantactagt accc 644

```

```
<220>
<221> misc_feature
<222> (1)...(526)
<223> n = A,T,C or G
```

```
<210> 632
<211> 647
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(647)
<223> n = A,T,C or G
```

```
<210> 633
<211> 630
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(630)
<223> n = A,T,C or G
```

```

<400> 633
tccttcgggt tgggtttttt tctgaccccc ccccccccc cccctcgga aggcctctag      60
gctcccaccc gtctctctaa tcctcaggaa ccgatccacc caaccaactt actaatgtcc      120
tacagtaaac acccgagaat ataaacccac acctaggcct ccaatcctac cagggaagca      180
agaagccgta gtctagcgta ttacgaaccc gagatagaga cggagatact tagttttatt      240
ctctcggaat aggaaagacg actggggagg gaatataggc tagcgcgggg ataggggcta      300
tggcggatat gggggcgggt cgctctctta ttcttctata ccacgtcaat aggaatgtag      360
atatacctag atgttcccggt agaaagagac gttagaggtc tccgaagcta taaaggagag      420
gcgcgaagaa acttcgtact ctagctttat ataggtagtc gctctagtcc cataagcgac      480
gagagatcta ctagatttcg gtatcgccgt cgtatgtatt cgaaatagtc ttcttccct      540
tttcgatctc ctctctatac tacatggnga ttatagtcnt aagatagtca ggatattagg      600
atattagtta tatgacgttc gacgggacgg                                     630

```

```

<210> 634
<211> 647
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(647)
<223> n = A,T,C or G

```

```

<400> 634
ccntcggtt gggttttttt ctgaccccc ccccccccc cctccactaa gancttaacc      60
caaccctata gtttactcgt ataggggaat cgaggagaaa taggaacgaa gagcgggtga      120
taaagagaaa gtactttcct ttatatgtta agagcttagc gtaatgactt tcgttatatg      180
gctagtgtat tttatccggc gttatagggc ttagttctgg ttatctcggg tctaattccc      240
ttagtatgct cgggagttta acgaggtcac gggatagcgc gtaccctttc taaggttcct      300
ggaaagctat tcgttattta tcgcgattct cgaggtcgaa aggatcaagg atcttccctt      360
ttactaccct agtcgggtta gcggtcggtc aaaactagt tagtaccttt acctcctcga      420
aagttatagt cgaaacaacg tattagtcca aattatagcg gatagatcga gacggttctt      480
tctcgggttc tcagccggta atccctctat ttgggggtct tctccctctt cccctttgtc      540
ttccgcctta gcttccaagg ttctcggaa gcgaggggtt ctacttaagt cgntagcgtt      600
ccttataaac cncctacagg cagaccccc tgtaaacggc tcgggggt                                     647

```

```

<210> 635
<211> 645
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(645)
<223> n = A,T,C or G

```

```

<400> 635
ccttcgggtt gggttttttt ctgagcccc ccccccccc cccgaaactc gccttacctt      60
agatacccaa agaatagttc cactcaactt cgtctaagta aaactctaga acttccaaac      120
ataaaaagact tcgcgcgggt agctacacag cctacgggaa tctcacgaat cccgattcaa      180
gtcccactct cgaccacacc ccggtatcgt cgttttccca taccaatgtc gaaaaataaa      240
ataaaatcca gtcaagcccc acggtaagcg ggggtagggc taggcgaaga ggcaggaacc      300
gttcgaggcc gggggtttt aaaatacaaa acaactactt aaagtttacc ctttctaag      360
tcgggggcaa cggttaaaag acgcctctaa agtactactc gtttcgagaa ggggtagtca      420

```

```

tctcccgcat agagactctc gcgtatatca actcgcatcg cttctagcat tccgacggtc 480
gcccgcggct acatatcttg cggattagct ccgagggact ataggggttaa ttagtctagt 540
aaattctctt agaggatagt cggggtcgta gttaggcagt acgaggggac atggngctgcg 600
tcgtgctcta ccttgacagc atactcttat aaacatcttt ttcct 645

```

```

<210> 636
<211> 643
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(643)
<223> n = A,T,C or G

```

```

<400> 636
ccttcggctt gggttttttt ctgacccccc ccccccccc cctagcggaa aacaatcccc 60
accgagattt tattaatcgt aaaactcgcc ttcggtacca agtcttcctc cttcccgtaa 120
cctggctccc tcttagnggc tttaacgaacg tccctcctct tcttacggct cggaagtgg 180
tacggttaaa tccggaggng gggctaacga atccaaggct aactcctctt anagtttggt 240
gtccncnctt ttagtaagga tccgtggagg gcgagtattt gnccccggc ctttattnta 300
tagttcccta gtacgataaa gntaccggct atcctattac agcggataaa agttatttan 360
agggccgacg tncccgctag acaggctaca gctagnggag gtaccgcctc cgactantcc 420
gttgnttcog acaaggcnagt ttcggttaac tccacaaact cctccgccga ctctanggtg 480
gggacggcag ttcccnctgt tagtgtcgt tatabagaag ggcatttgag ttggacgta 540
cnttttaaca taggttattc cgtttagggt cttgcgggcc cgtgggggta gtnccnccggc 600
gcgttnntat cggcgatttt ccgcagtttc cgtttccggn tnt 643

```

```

<210> 637
<211> 631
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(631)
<223> n = A,T,C or G

```

```

<400> 637
gggttntctc atttggtggt actttttggg tcgtaggaac cggatatgnag gagtaggagt 60
cgctgggaag actagaagtt agctacggac gattagtgtg attccactct taataacgag 120
taatcgttta cgtcgggttg gtgtttcggg gttttggaga gtaagcgtag ttgtggagtt 180
tcgcatatag gtccccttac ttccggcgac tcgtcttctg tcgggttaggt tattattggt 240
catccttcgc attagtagta gggttggctg gataaatcga tagctattct ttagaattcg 300
tagtcggaga attcgtgtac gaagtccttt aagttcttta agttcgcgag taagacgtgt 360
acggttattt tgtcgtcgac gtaggtgtcg ttacgggag ttctgtttta ggggtttacg 420
tagaacgtta ttaagcacgg taatacgata gaggattacg cgacgtattc gtcttagaac 480
gtcgattttt cgaaggcgca tttgttatcg aaggggagtc cttggagaat cgagatattc 540
caagaatatt acggagatta cagatcggaa ggctcccag atcggacgta ttaccggtct 600
cgcccgaaac gagtaggtat cntccggata a 631

```

```

<210> 638
<211> 606
<212> DNA

```

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(606)

<223> n = A,T,C or G

<400> 638

```

ccccccccc ctcaaccatc nattccccac ctcaacgcga attacggttt cgaaagtcga      60
caataagtcg ggtcgagtag agggaatcag gggctggtan aaaggaccac gggcggaaaa      120
taccggtctc cttccgggga gcgacgtcgg ggaaaggga gagagcggtc tagttcgtag      180
gcaaacagggt cagaaaagtt aaggttaaag gtcggagggg agaggatagc tagtacgctt      240
agttcggggc tcgggcgcag ggccactttc ctctttcgcg ttcctttact ctgcttacga      300
gttcaggctc cggagttccg cgccggaggt cgtcgcgacg ctaggaatgg ggactcgctc      360
agtccccggt tacccttcgg gattctatgt ttctgccgat agacggagac cgggtagtag      420
ggttccgctg taccgccact cgtcgccttg atccggcccg ctccgcttaa gggcgatgaa      480
agattaggta ttagggctct acgggacgag gcatagggcg ggagaagggg ggaggggtcg      540
ggggtcgaa gantaagaa atcgcantcg cgcggggtcg gtagganccg aaatttttct      600
cnnctg                                           606

```

<210> 639

<211> 592

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(592)

<223> n = A,T,C or G

<400> 639

```

tcctcgggt tgggtttttt tctgagcccc cccccccccc cccccgggaa cgagaaaaca      60
atcccaccct acccggggga gtgggttgna cgcttagttc tagaatcctc ggaatcgtcc      120
tccggcgttg gtagttccgg cgattccgag tatgccgaag tgtatcgctc cgtctagagg      180
ttggtatctg tttatcgaga tgacgtatt gactcggatg ctttcgaagt agggggatag      240
gcgcatagat acgctccgc ggtgtcctct gaagtggccg catccgtgga cgcagcgtag      300
acagctctgg tggacgataa cggcttctcg tactcctact ccggctatta tgtagagag      360
gacttgtttc tgaacggata taccattagc gaaggggtac cctccgctaa cgcaggcgtt      420
tctaacagtt cttccgggcg ctccgaattt agattgacgc ctccgcagca ttgtgggac      480
ctcttcggtt agccctcttt ataggatttc tctccgccc cgaaagangg ctggtcgtcc      540
ccggcangta tgtctagctc gaacgctttg ttactccttt gttttcgaaa na              592

```

<210> 640

<211> 637

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(637)

<223> n = A,T,C or G

<400> 640

```

ctttgtggcg gtgngtgtct catttggggtg gactttttgg gtcgtaggct tatccgggtn      60

```



```

gggctcccga agtagcttag gatcgccggc tagttccggt cccgcccgtc gaaagcgcgg 120
ttcggcggggc ggccccgcgt tcgttcgcgg gctttaccct catagagtgc caggtctcgg 180
ttcttacggg ttcgtcggcg atagatttta cggcgagagg tcggtatctt cgcgcgttta 240
cgttcgggtcg gcatctacgc ctagttcaca ggtagtttat gcgccggagc gcgtgacgga 300
gaggttatac gggacgcgga agaaccgcct ccaaatagact agtacaggct cgttcggggc 360
tagatctoct cgctcggtcg gcggttctta cttctagggc cgctctacgg ttttaaggcg 420
tcggttagatc ttagaaacta tactcaagtt tcagtcggaa gaaagggaagt agagagaagg 480
gtaaacgatt acctccggtt ctagcccttt ttactcgcac aacgggagaa cggggtccgg 540
ctctcagata cgctcgcga gacgtcgcga ttcaacttta acctccgcta gggcatccgt 600
atacggttaa cgcggtaaaa gcgacctcgg aaacctc 637

```

```

<210> 641
<211> 649
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(649)
<223> n = A,T,C or G

```

```

<400> 641
ctntgtggcg gtggttgtct cagtttgggt ggatttttgg gtcgtaggna acctggtatg 60
aggtctagtt tcttcaacga ttcttggttc agttacgcga cctatcctt atcttacaat 120
gtcttctaca tcaggttcat caattaatat atcaattaca cattaacgac ggtgtgacgc 180
aatatgagaa agtatacatt aagggttatta tatattattc gcttaaaaag gttcctgaca 240
tgggacaact tcacccacca ttctagaagc cccccctcct gtaggacccc ctcgagttcc 300
ccattatctt agttcagttt tcatttttta accaggaggg tatcggtttt taatagggtac 360
tattttgtca aacttttcag aagctttatc ttcaaataata cttgcaccat ctgtactagg 420
agcactaact attcgagtct attacagctc aacagaaaat aattgaaatt aaacaaccta 480
agtatcgctc accataaccc catcgggctc tcaccccat tcttcataag ttctagagca 540
tctcgagctc tttcctatta ccttgatgg tactcatggg ctaatacccc ccgcagttat 600
aggtccttat ggatcctatg ctaccacggg tctaatecct tctatcacn 649

```

```

<210> 642
<211> 645
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(645)
<223> n = A,T,C or G

```

```

<400> 642
tccttcggct tgggtttttt ttcgtcgcgg gttactatta tcgattgtta cttgtaaagg 60
cgatactccc accgctcacg atattagacc tgctcctcta gaagcgaacg gcgataggtc 120
tactcggccg gcgaagacgg cgaacgggta ggaggagcca tatgcaaccc taacggagat 180
tataagtact gggaaaaata ctagtattaa ggtagcgggt taagatagggt ggagagacac 240
tattcacgag cataagcact tagaaggctt tctcgaggag aggtaggcta cggactacgt 300
tcctttcttc tctagcctcg agagggagta tagatgattc gcaaaagaga atccctccta 360
tacgctggca taactagacg acgcgtcgtc gggaaatctc gccaaccta ttgcgacctc 420
caaaaggaag attgtcgttt catagaacgc taatactcgg ggtcttcccg aatcatagcc 480
gcatatcggg aagaagacgg taaaatcgcg cgattctaac aagattctgt agacttaagg 540

```

```

ctaagcacta gaagcgatct cgattccgga tcttaagatc atactaatag ttcggtcaca    600
ccagacgacg attagccact agaagcccta ctccgtngaa accgg                      645

```

```

<210> 643
<211> 586
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(586)
<223> n = A,T,C or G

```

```

<400> 643
ctttgtggcg gcggtgtctc atttgggtgg atttttgggt cgtaggaacc tggatatgcag    60
ggtccgcccc gaattaaaag cgggatcccc aaaacgnngn ttcgcaagaa gagaagaatc    120
atagcgatag anctttcata gtacaaaggt aactaagagg aaaataatgc agattcagaa    180
ctagttgcc aattagaact cgattaggcc aaggatccga gcctggcgct atcacttcgg    240
gacttaagct acggtagagc agtcggtcct gaagcatagc tcccgtagga cgtaggaaac    300
tagtccggca cggaggacat actctcgagt ctcggaacgt ctatttagaa tataaacgca    360
ttaacctcag aaggcgccga cgcggttact ctctagggaa ctatttcatt ccttccggag    420
ctcccctatt ttccaacac atataccggc aaagggaaaat cttntgtcct cggctctaaag    480
agagggaaaa aaaacgatat ctaggttcgg gtttatccat ttaaaaaanat ngacgcgact    540
actccctttc aaaggggagt tccccctagg nagagttcaa cngaag                    586

```

```

<210> 644
<211> 646
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G

```

```

<400> 644
ctttgtggcg gtggttgtct catttgggtg gcatttttgg gtcgtaggaa cctggtatng    60
agggctatth gaattgtttc tcaaatccca tggatatggt ggtggcgtgc ggggtggcgg    120
tcggttcggc gggggtgggg gtcgtcctcc aaaggagttg ctagagggct ttagtggtt    180
ttagggcggg aagggggttag agcggagaga cgtcgtcgtg gaagcttctg gcggagcgcg    240
agaagtagt tagcgccggt tcggaagatt ctacagaattc gagaagaggt agtggggcgc    300
ggagagagag tttctaagtc taaacgtaga ggtcgtccta gtcgggcccgg gagtagcttt    360
taagctagag gtcgaggtcc tcgttttaggc tccgggctct tcgggcagta tcctctttct    420
cgaggaacgg agcgaccgac gtcgtagccg gaccggtcta tccgtacgtt tagagatacg    480
ctcacctcca cgggcgtata tgcccgata cgtataaacg cgtaatatata tcgcgcgtaa    540
aacacgtata cactatatac acgcacgtga cggaccgtat agcgttatata gcgcgcgtat    600
attaattttac acttatatac gcgttaaacac gatatatcac acnccg                    646

```

```

<210> 645
<211> 654
<212> DNA
<213> Homo sapien

```

```

<220>

```

<221> misc\_feature  
 <222> (1)...(654)  
 <223> n = A,T,C or G

<400> 645  
 ncncctcggt tgggtttttt tctgaccccc ccccccccc cccccggctg acaacgtgcc 60  
 caccgttgcc atcccagcat agctggttcg ttctgtttta ttcttagtag tttagttcgc 120  
 ctatagtccc tcgtctatcg tctatcattt aaggaggcgg ggctcgctct ttagggcggg 180  
 tatcttaggt attcttctgg ttctggctgc cgtctcggag tctggtcctt ttgctttcct 240  
 ttcttggtcg aacttcgtgt ttgatcgcgt tgtttctttg ggttcgcat acctaagggc 300  
 cacttcgcca acaaacaagt ttgtgtagtc gtttctatta ggttcgctg gccggcgctc 360  
 ttactgggtg gcgattttta acgcggtttg ttttaatttg cttcctcccc tagggctcgc 420  
 tcggtcttct ctctgttcgc tgctctcgtc cggcctttgg tgcggggata gctccggcta 480  
 ttanctgcc gtgtccgtgt ggnttttgtc caatgtgaag gcctaggggt gccggcttct 540  
 ttggccatgg ntccccctct tgtgancctt aggggtaacg antcgtatt naaggctcggg 600  
 gggtggnata cgttntangg gangcctgng tccgntattc cttgttttgg cctn 654

<210> 646  
 <211> 645  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(645)  
 <223> n = A,T,C or G

<400> 646  
 tccttcggct tgggtttttt tctgagcccc ccccccccc cccccacgcc aagtacacag 60  
 acccaccaaa aacaacgtca acacaacttc ggggtatacgg accttaagag agaccccgta 120  
 gtagacccta ccacagccat ccaatagtc aacaacaagg gcgcacccaa tccatccata 180  
 gagctatcaa acaacggagg ggaaaggaaa gagcagggtc aacttagcag agatcgaagt 240  
 cggcactaat tcctttcaag tactcgctcg gctttagatt cggggtaaag tccgctctca 300  
 aagggccaac gaggttttaa agcgaccccc gtatcgagtc ttcttcgtat tcattaaggc 360  
 gttaaaggta cgagacctag aagagagtag aattagccca ccaaategcc taaaccggca 420  
 aaaacgacca aaagtcaaag acccttaca atatacctt aaaacgcaa ccccaaaaac 480  
 gcgatcagta acgcacgtac ctttcccacg cttttcttct tttcactctc caaaacaaac 540  
 ccgaatatct agcgcaaaaa atatacggag gagaattaga agctattacc cgaaaaaaa 600  
 ncgganangg antaaatngt ggggaatana cgtttggtt ttctg 645

<210> 647  
 <211> 753  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(753)  
 <223> n = A,T,C or G

<400> 647  
 accttacctg gtaccggggc cccctcgag ttttttttt tccaaataca actcagattg 60  
 tatacgaaaa gctgataata cattgacttt tgctgtttta atcccttgag cttttgataa 120  
 tgattttttt tgtgttaaca attgtagtat ataaaatcgg attcaccatc cttctgatgc 180

```

catattgatt agtttgattt tatggatgat ggatcattgt gtgttaactg tattaagaag 240
aaatggattt gattgacttt gcatccattt ttatctgtgt tactttcatg ttttatttaa 300
aagcattttct ggaccagaat aagttaagtg gtataatttg ctttttacac gtttatataa 360
ttgaagtttag caatgtggca aaatctctaa tggaaataaa atgcttcaga atgatgacat 420
aaatctgagc tatttcttgc ctggagaaca agtgttattc ataataattt aatagcttct 480
gaggtgtttt gttcatgtga tgaaggctta tccacctgtg atcaattcat gggctctgct 540
ttgtttaatg tagtcagggt gttaatacna gacttaagag tcacccctact gtgataagtg 600
gtgagtgaag attacatgtc ttangaaaat tatactggga atatctctga cattaatggg 660
tttaaagtgt ttaaggctag gggatgatgc aatgganaan atncttccaa angtttctg 720
ttgtttatat ttgnngaagn catnaagana ccg 753

```

<210> 648

<211> 383

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(383)

<223> n = A,T,C or G

<400> 648

```

gatatcccg ggaatgagg aggcctttng gcttacgtgt ttaccgcta gggcaaagcc 60
ttgncaaat cccggccagc ggagcggcga ggggtggggac tcacgggaag ttaaacagcc 120
tcgtcggcgt cctcgagget ccaaaaccag gctctaggcg gggacgactg cagccgttat 180
ggaggccacc gcggtacgg ccgcggctga ggctcctcca ggtggagcgg tggcctggag 240
gggaatcttg atcctgggac agccacctgt caagaggagg cggagcgtca tgcctctgga 300
agactggatg aatattctcc aggagcctga cgaaggcgaa gaagtcttg cagaggaaat 360
tgaatgctgt ctgatgctac aat 383

```

<210> 649

<211> 349

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(349)

<223> n = A,T,C or G

<400> 649

```

cgattgtnta cnagtcttag agtaagctta agntcgntac cgagctcga tccactagtc 60
cagtgtggtg ggaattccat tgtgttggtg cactagtaaa tggatttagc tagacanagg 120
anatttacc tatccattt agcacagtga gganaggcta nacagctagg atgcaataaa 180
aaaaatttta atgagaaatg tgtgtggtag attaattcta ttaattctca gttatagatt 240
aaaaaattta agtaccncat aaatgccatt tgcctttgct aangntacat ttttatgaan 300
aangacntg catacnaat ganatactgg actttnggna cttgangga 349

```

<210> 650

<211> 306

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(306)

<223> n = A,T,C or G

<400> 650

cattgtgttg	ggagcatcct	tccatcagct	cccatgagaa	attctctgtt	gggtttaagc	60
aatccccaaa	tatatcatat	tgacatgaat	atatcatctc	ctcaatgtcc	agcattagca	120
gacaagatga	gtgotgaaga	tgatataact	cctacctctt	atgtaggcta	gaggtaaagt	180
ctggctctgc	tgactgtggg	gacataccga	aaaggaatgt	gggttaatat	cagangacct	240
ccctgcagat	ccganantca	gggncctggac	tttctgggan	aggaagcnaa	aagttatntc	300
tgaacc						306

<210> 651

<211> 769

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(769)

<223> n = A,T,C or G

<400> 651

cattgtgttg	ggcaggggtca	tttctaaggo	atgggctgga	agctttttatt	taaaacttta	60
catgtcttag	aagcaactctg	gttggttgcta	ggcagacaat	tttacatctc	ttgctatacc	120
agttgcatga	agttcatcat	gcataattggc	tgtggaaaac	cttaacagca	tcattgtcata	180
aggtttcagt	aaggtttaaa	tgaaatcatg	tattaagcac	ttagtatagt	gcaccttaaa	240
tgtagcttc	aaaacaatga	caacctaaact	aatggttgaaa	gaagcttggtg	tttgtaaatt	300
atgtcttatt	gaaagatgtc	atcaaatcct	gttattttcta	atcccttaaa	gtctctcaat	360
gtattttctt	ttgccatatac	caatgacagg	accttagttt	aagccagtgg	ttctctcaac	420
ttctaatacca	gagataacctg	ggtgtcccca	agaccttttc	agagcatcct	tgatgtcaaa	480
accattttca	taataatatt	aaaatattat	ttgtctcattg	tactcttatt	ctctcccaaa	540
tattcagcga	gttttccaga	agctatataa	catgtggtaa	catcttatca	ctctgacgat	600
taatagaata	tgnngnttttg	gattcttgng	tttaaaattt	tctcactttg	gggttctaatt	660
atggnnacga	ttaatagata	tggnctccat	gaccagangg	ctttaaagca	ntcaataatt	720
tttaagagac	taagnactat	cctttaaaga	tngngaactc	catcttaatt		769

<210> 652

<211> 267

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(267)

<223> n = A,T,C or G

<400> 652

nnangccctt	taaccattgn	ggcctccacg	cnntggcggc	cgctctacaa	ctagnnggatc	60
cgcnaactcta	gnanaangat	tggtcttnt	gggntgggcc	ggncgggctg	gggcgttaag	120
cggggctggg	cgcgcgccgn	ggttgnacna	ggcgccgcgc	ccncacacn	cccgagcac	180
cctcnttgcn	gcctncccc	gtcacccccg	cgcgcgcgcgn	tccgcttttt	ccncacccan	240
agcncntttt	atctntgtct	cctccgg				267

<210> 653  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 653  
 ccncttnacc cattgctgga ctccaccgcg gtggcgggccg ctctanaact agtgggatcc 60  
 ttncnatgag atgngcgang gaggacnnat ttgctatnct ggatggggct gantcntnta 120  
 gctnctctag cancagatgg gttatcgagg aagatgactc caangggcta nantcctatg 180  
 cncatcctaa aanncanctg ctgtnttcag agtacgcgac acatcatenc tnatgcattg 240  
 ntgancaaga cgggcangtg cttatcctca gcgangatgc ccttaaccan gagctcgaat 300  
 ggacntatca centanaggt acanntnccg caccacacac cngcttgcnn cctgacgctg 360  
 gactggatcn cttaggccac caatnccccg tttncacat ncctgggach ctananatac 420  
 tcganggggg gcccgggtanc caattcgccc taatactgag ccttgntacg nacgctnact 480  
 ngngtctcta ttanaacggt g 501

<210> 654  
 <211> 710  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(710)  
 <223> n = A,T,C or G

<400> 654  
 gcgnctttan cncatgctgg gctccacgcg gtggcgggccg ctctacacta gtggatccca 60  
 aactgagtc caccacagna aaactcanca ccaggcagac cccacaactg cagaatccag 120  
 gctgcaattc acagactaat cntctagacc cacctcagta ccagatggta ccacacagct 180  
 caaggnttta ggtttgcgtg gtanactcaa tctctatctt tcaccactgc cagcctgact 240  
 tcagagatcc tgnctctctg acagtccctca gtggcaggca actctcagga gcctcaggnt 300  
 tttggcacat cccagnacca gccagctgcc acaggccctg accttntanc aacactgccc 360  
 atgtattcca gacttctanc ataccacagt gccatgctga ttgcatctat agangctcag 420  
 gtgcncctca aanctgtgcc tgetgcagna ngccccacgt ctctggcatg ccccaatgcc 480  
 atgngtggnna acanttgact tctgggcatg ntggaattcc ctaccactga ncctgaccat 540  
 agngggganc ccattttttt cgaggggggg gcccggcccc caattccncc ntatagnag 600  
 ncgtanttac gcgcnnctta ctnggcngt ngtttaacaa cgtenntgan ctggggaaaa 660  
 cccctggngn cnacccaaat taaacngent tgcannacat ccccctttcg 710

<210> 655  
 <211> 202  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(202)  
 <223> n = A,T,C or G

```

<400> 655
ccccctttncc ctttcanccc ccccggttttg gcngecgccn acacctactn catccaccca      60
cantcgacca cccgagcttt tttccgatcc cancactnat gcnagatttn tctntgcntg      120
ctgngecctgc acctttgnta ggtcaagcct ggccccatctt cgacaacttc ctcatcacca      180
acgatgaggc atactctgac ga                                     202

```

```

<210> 656
<211> 308
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(308)
<223> n = A,T,C or G

```

```

<400> 656
gctgntgaaa gaccacaccg aaaaactctn ctttccgact tccacatgat gatcngcatg      60
tggtggtgag agacttatca tgacgacatc gcttccnacc atcgcanccn ctgccccaggc      120
ccattcatgg aggctgggn anttctgtga ntgaentnga cnetanacnc tnccactgtn      180
tgctatccag acttgnttng aatatnttat tggcnaaana canttnccgga atgctgtgnt      240
tgnncattga angatctgat cactatgaga ggggtgaggac nncctgctng ctggcantnt      300
ntaacccn                                     308

```

```

<210> 657
<211> 696
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(696)
<223> n = A,T,C or G

```

```

<400> 657
accntttcca caatnctggn ctccccgcgg tggcgggcgc gtcgaccagc aacctcagct      60
gtgggtcttg ttacagtaat gagttactgt aaggaaagtg tgacatttcg agcaatttga      120
tttgtttaaa aactagagca gtttcagggt tttccttgta aatctgtctt atgtgtcttc      180
aatgttcttt cttgaggagt agagaaagga attgttagga atgatgcata aacctatggct      240
tattttatct cgctgccacc cataatcaga gcagattctt gggactatga ccctcatgga      300
gacatgacaa ttgtgtgtgt ggtgggtggg agaaaagagc tgggaatttt tagggctctag      360
aggggtccaat caggactatt ttatggagct ctgctcacca actttaagtg agcaccaggg      420
gtgngaaaagc gaatcttggg ntcaaaaanaa caatggnaag gggtaagttg gtatnctgaa      480
ctggccactt cggactctta tttaactggg tattctcant taaggaggcn ngggtggtct      540
tggtctgtna aggaaagcct gtgcaatgga atgactttta aaccccccat taaaaaaaaa      600
angntataaa tcttgggtct taanaangaa gcctgggttc tnttanccca ttttnccccc      660
gggaaggnaa atnttcttag gnaanggaag ggaagg                                     696

```

```

<210> 658
<211> 698
<212> DNA
<213> Homo sapien

```

<220>  
 <221> misc\_feature  
 <222> (1)...(698)  
 <223> n = A,T,C or G

<400> 658  
 ctggactccc cgcggtggcg gccgctctag aactagtgga tccgtgttgg ctcaattctc 60  
 aaggctgttg ctgtgcggcc tgttccccac acgtgctgct cagctcaggc aagcaccgag 120  
 cttgtgttgt ttcattgctca gcgtggaggc cctcctcca ggtcgctgct ctgtgggggt 180  
 cccatacact caggctccta ggaggagtcc atttagaaag ccagggtttt tctcagagtc 240  
 ttagttcctt gtgctgtcat ccatttcaca cgacttgggc cctgctcggg gcaacacagc 300  
 aagagaaaaa acagggaaaa taagagaggg accttgacac cacacgctct ggaccacaga 360  
 gccctgtgcc cagctcctct gtcaatacag gtggaatctc gtgcaggatc gcagggggtc 420  
 gtgatgccac caaagagcag gccgggacag ggtaggaga gaaaggagag ggaagtgggg 480  
 gtttctccta cgcaactctta tttgcagagg gaaaggcggg tttgtattgg ggttgtcggg 540  
 ctttgcaccc acngcacagt tgtgagacac ccccatcctn agatcaaagc cccacataca 600  
 gcttggggaa aaacaaaacn aaacaaaaca aaaacagtaa acctccatgc canttggttg 660  
 gnaagttttn aatttncttc cccnaccan cttgcttc 698

<210> 659  
 <211> 750  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(750)  
 <223> n = A,T,C or G

<400> 659  
 ncaantcggg ctccaccgcg gtggcgcccg ctctagacta gtggatcctc ctcatgggcc 60  
 tggatatctc tgaacatatg atgaacattg cttatgaaaa attatttgta ngaaaattgt 120  
 gaggcctaag aatgntattt tcttttagtg atgggtcttg tttgcttctg taaggnactt 180  
 gtgggcactc gtaagcttgg atctctttta tctaatacca gntttgagat tttcttggcc 240  
 ccatagatga attaaaactg gcgtacttct tgtttacaag anggataagt ctctagggt 300  
 aagtcttttg gggccccaaag tcaaaaagat gagggattta ccagttctct aaccttggt 360  
 gccccagact ccaaactttg ccttctagtc ccaagaggct atcaaaaagc aaaggccatc 420  
 ttccaccttc ttttccanaa cagcacacat tccagacagt acttgaaagc aggaacctcc 480  
 ttatccctta aaaacctctt ggaancatct tccctctctt gcttctacta tgcttggccc 540  
 acctancatt cncntttttc tggaaaccgg aaaaancttn tgacttnngt tggctacatt 600  
 cagcttggcc ccctacaatn tggtttccat ctgccctaan gaaattttta agggcacttt 660  
 tttnttgcc cctgactttc nnttttagg gctttccccc angctttgcc ctttgggtta 720  
 aagggttat tttccttccc cttttggaag 750

<210> 660  
 <211> 849  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(849)  
 <223> n = A,T,C or G



```

<400> 660
tcggatccac tagtccagtg tgggtggaatt cgcgggccgc gtcgacgggc agtagtggtta      60
tgcntntcta aatggttataa ttatttcaga attactctgc cagaaagtta tgatcataca      120
tagaagagtt tgtagctaac tttgaaagta gtggaaagtg gttttcatgt attgtttggg      180
ttaatttaat tttgattata tttgggtttt agttcaggta atttttttgt tgaaaacttc      240
aaatgacaat ttcttcacgg ttactaaaga tcactcatgt ggagtagttt cagatttttt      300
tctgaataca tgtattactt ttagagatgt aaagatgtga aattactaag agagaaaacc      360
atgtgatttg tttagtggat caaaagtcgg tagctccttt gatcctaagt gccactgata      420
gttaaataga tactgaagct atgggcaggc tggattgata agaaaaaagg agacagagaa      480
atgggaaatt gggaaagaac tgtgcaaata ggaaaaggag agagcaacag aacagaatta      540
gtaccacagt gccgaagtgc cacctcaggt acttccatct cccatctcct gaagaattca      600
gtaacagttt gcaaattggc aacacaatca tttagtgatc ctggttgata ttttcaatac      660
tttctgggga tttcttggct ggnttcaaaa gatgatctg atagttttat tgcccctgaa      720
ggtattctga agnttancat aatttattgg tcagtaaaat atttgaataa aagngganga      780
aggaaaatct ggcntcttat tttgggatnt cngcnggggg aangaggata taattnaccc      840
cggccttgg                                     849

```

```

<210> 661
<211> 653
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(653)
<223> n = A,T,C or G

```

```

<400> 661
aacttaagct tggtagccgag ctcggatccc tagtccagtg tgggtggaatt cgcgggccgcg      60
tcgacctcca ttogtttctt gtcccttttt ttcatttttt ctcatgttct attcacttta      120
ggttttctaag ataaatatta taaaataatt tttacttata aattattcac tgataccctg      180
tctttaacat gtgaaatgaa ttcaaaagga atcttaatga gaaataatat actcatgatg      240
tttaatagat ttgatttcga aataataagc cctctgaagt cctaagttaa aaataaagca      300
acttgtttga taatttttca tcaagaatgt atctgagtct ctgagtaatt attagtagga      360
atattccatt atcacaatta cacagtataa gctatttagt ctaactttac caaaaaaggg      420
agctacttca acactgtgtg agacttttaa tggggttgca ttgggtatgc actattagca      480
agataaccta ttttacagca gtgtttntta acctttccca tttatttgaa aggcagctaa      540
gatatagtag ttaatntaan gggctgatgc atttatatta catgtagana atgggagata      600
cnaaaggagg nggggggana tnttttgnat tcnnaagctt cnttgncaat taa          653

```

```

<210> 662
<211> 646
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G

```

```

<400> 662
aaacttaagc ttggtacccg agctcggatc cctagtcocag tgtggtggaa ttcgcgggccg      60
cgtcgaccca gggacaggca gccagnctg gggtcaccag ggtccctct tgggccctcc      120
aanagcaaca gtactggcaa cagctgggat ttgctgagca cagactctgc agcaggctcg      180

```

```

gttgagctct ctgtgcctgt tccttcatac catcctcagc cccatccatg agatgggtcc 240
agctgttttc agatgagaaa atggcacagg aagctggtaa gtgacagtca gaaatgaatg 300
ctggcagctt antccttgga cccaccgcag tgcaggacct tgctcaacag ggatcaccct 360
tgtccgccac ctgttcatga ggccaccagc ggtttgtgtg gtcatttgtc tcctttcatc 420
tgcttgccct caaccagctg ggtcattagg gctggggaac ccagacccca cacagtccct 480
ctcccagang ccagacacac nctncgccac agnaaggact tcagtccccg aancaaatgt 540
ncctgggcgt anaaactgna gggnccccaa tccctgggtg ggtactgctt tgcaactggng 600
gaattcaccc ctcattnnna acctttccct nttncaccc ctaaac 646

```

```

<210> 663
<211> 650
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(650)
<223> n = A,T,C or G

```

```

<400> 663
aacttaagct tggtaaccga gctcggatcc ctagtccagt gtggtggaat tcgcggccgc 60
gtcgacgtcg acgcggcgng ccgtttcgac gcagttgata catattatta tatactacat 120
nggttttcta gaattaaaaa attaattgtgt agtgccagcc ctagatgtaa gttacatata 180
tcaactctat ccaattttgt cagccataaa acttaccttt ttcacatact tctaactcta 240
acaatgtgag aaatgtagat cattgcaatt ataccacaa ggcagatggc tacatgcaga 300
atggatagca gaatctagct acttaacgta gccacatggt agacgttttt tcctttgttt 360
ttgcaaaatt gcaatataag ttgcataatc ttagagttaa aagatgtaaa gaacccatag 420
aagccagtga tgaaggacat ttatattttc acctttacaa angaccttaa aattgcctat 480
gtggagcaga aactggagga gggcnaancc atcngtaaaa aaaattttgn tncattttgg 540
atttgggcac cattattacc tccccaggtn cctttttgnt ttaacctttc ttttaaaaaa 600
aataattcnt aatttttggg caaaaaaaaa caaggttttt atttaaattt 650

```

```

<210> 664
<211> 678
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G

```

```

<400> 664
taaaaaatcta gactacacta ggaaattatt ttantatcag aagaatatca ggggtgtagt 60
actcatcana gctaaatgag agcgctttta aaatgttagt ttgtcttcog ccatttctac 120
agaaagctgc aatttcagggt tttcaacctt atagggtgata ttttaagaaaa aaaaaaagca 180
atcgcaaata gccccactgc ttttacaaat cattttttct cttctaggta tagcctgtca 240
ggtggcctaa tgtaattttt gacatctcta ggaattttta tagaaccaga aatgggtgcc 300
agagatatgc ctgcactaat cttaagtggg gatattatgta tttctcaagc aagtgattaa 360
agcaaaacta ggcacgattg aaatcaanat cttttaggca agaaagtcac gatgagtttt 420
anaattatth taggactctg tggctttctc ttcatagaaa tagaaaaaaa aaattgtata 480
aaaaccacaa aaggctcctga atagcccaaa gcaacactga acaaaaangaa caaagcagga 540
agcaacacac taccggaatt caattatact accaagggtg antaaccaaa acagcattct 600
attgggcata aaatagacca aagaccagtg ggaaacagaa taaagaancc caaataaat 660

```

cctatatatta cngccnc

678

<210> 665  
 <211> 694  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(694)  
 <223> n = A,T,C or G

<400> 665  
 cttttcaaat catttttinct cttctaggta tancctgtca ggtggcctaa tgtaattttt 60  
 gacatctcta ngaatttttaa tagaaccaga aatgggtgcc agagatatgc ctgcactaat 120  
 cttaagtggg gatattatgta tttctcaagc aagtgattaa agcaaaaacta ggcacgattg 180  
 aaatcaagat cttttaggca anaaagtcac gatgagtttt agaattattt taggactctg 240  
 tggctttctc ttcatagaaa tagaaaaaaa aattgtataa aaccacaaaa ggtcctgaat 300  
 agccaaagca acactganca aaaagaacan agcagggaag caacacacta ccngaattca 360  
 aattatacta ccagggtgta gtaacccaaa cagcattcta ttggcataaa atagacacca 420  
 agaccaatgg ancagaataa agaacccccc aaataaatcc atatatntac cgccanctga 480  
 ttatcaataa cnaacaccaa gaacatatnt taagggaant nctattcaat aantagtgtc 540  
 ggnaaaaact gggaaatcca tatgcagaaa naatgaaact agaccacctat ccctcaccat 600  
 acgcaaannt caacttcgga atgggattac aaaacttaag acattccaac ccaagaaact 660  
 atnaaancta ctattaagaa aacagatcnc nccc 694

<210> 666  
 <211> 705  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(705)  
 <223> n = A,T,C or G

<400> 666  
 tttaaaaatt tagatacact angaaaatta ttttagtata agaagaatat caggggggtgt 60  
 agtactcatc agagctaaat gagagcgctt taaaaatgtt agtttgtctt ccgccatttc 120  
 tacagaaaagc tgcaatttca ggttttcaac ctaatagggtg atattttaaga aaaaaaaaaa 180  
 gcaatcgcaa atagccccac tgcctttaca aatcattttt tctcttctag gtatagcctg 240  
 tcagggtggc taatgtaatt tttgacatct ctaggaattt taatagaacc agaaatgggt 300  
 gccagagata tgctgcact aatcttaagt ggggatttat gtatttctca agcaagtgat 360  
 taaagcaaaa ctaggcacga ttgaaatcaa gatcttttag gcaagaaagt catgatgat 420  
 tttanaatta ttttaggact ctgtggcttt ctcttcatag aaatagaaaa aaaaattgta 480  
 taaaaccaca aaaggtcctg aatagcccaa gcaacactga acaaaaagaa caaagcagga 540  
 agcaacacac taccagaatt caaattatac taccaagggtg tagtaaccaa aacagcattc 600  
 tattgggcnt aaaatagacc naagaccaat ggaacagaat aaagaacca aaataaatcc 660  
 atatttttac agccagctna ttatcaataa aaacnccaag aacnt 705

<210> 667  
 <211> 817  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(817)  
 <223> n = A,T,C or G

<400> 667  
 nnangacttt tgtggtntta tacaattntt ttttctattt ctatgaagag aaagccacag 60  
 agtcctaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120  
 tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt 180  
 agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa 240  
 aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca 300  
 gtggggctat ttgcgattgc tttttttttt tcttaaatat cacctattag gttgaaaacc 360  
 tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgctctc 420  
 atttagctct gatgagtact acaccctga tattcttctg atactaaaat aattttccta 480  
 gtgtagtcta aactttttta aaaagacatg taatccgagg agtttgtaac tcaaaacgag 540  
 tgcattctagg aggtatcgca agcggtttct ggattaaatt ccagctagc ttgcttgctt 600  
 agcaggggag ggnaaanaag acatctgcag cctagggaag aaaacctttc gcattgttct 660  
 tacgtgttta cgttatttta tttcctanaa caaggcngaa ttgggactcg aatggttcag 720  
 ttgggggtgg ggatccctcg gtncataaaa ngtcanaaag anggtacagg cggaacncca 780  
 aggtcgctcc tgcatttana ctcggaattt tgggtgcc 817

<210> 668  
 <211> 826  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(826)  
 <223> n = A,T,C or G

<400> 668  
 cgggggggnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg 60  
 taccattcga gtccctactc ctgccttgct ctagggaat aaaataacgt aaacacgtaa 120  
 gaacaatgag aaagcgtttt ctcccttagg ctgcagattg lcttcttcac cgcccctgct 180  
 tagctagcta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca 240  
 ctcgttttga gttacaaaact ccgcggtatta catgtctttt taaaaaagt tagactacac 300  
 tagggaaaat tatttttagta tcagaagaat atcagggggt gtagtactca tcagagctna 360  
 atgagagcgc tttaaaaaatg ttagtttgtc ttccgccatt tctacagaaa gctgcaattt 420  
 caggttttca ncctaataagg tgatatntaa gaaaaaaaaa acaatcgcan atagcccact 480  
 gcttttacia atcattttttc tcttctaggt atagcctgtc aggtggccta atgtattttt 540  
 gacatctcta ggaattttta tagaccagaa atgggtgcca gagatatgcc tgcactaatc 600  
 ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcacgaatga 660  
 aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg 720  
 cttctcttct taaaatngaa aaaaaaattg tttaaaccca naaggtctga ataccaagc 780  
 nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc 826

<210> 669  
 <211> 547  
 <212> DNA  
 <213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(547)

<223> n = A,T,C or G

<400> 669

```
cattgtgttg gggaaaaaat gatttgtata agcagtgggg ctatttgcca ttgctttttt    60
tttttcttaa atatcaccta ttaggttgaa aacctgaaat tgcagctttc tgtagaaatg    120
gcggaagaca aactaacatt tttaaagcgc tctcatttag ctctgatgag tactacaccc    180
ctnatattct tctgatacta aaataatttt cctagtgtag tctaaacttt tttaaaaaga    240
catgtaatcc gcgaggttag taactcaaaa cgagtgcac tnggaagtat cgcagccgtt    300
nctggatnaa attcccagct tgctngcttg ctnagccggg gggcggtnaa aaaaacatct    360
gcagcccngg ggnaaaaaacc ttgcgattgt tcttacgtgt ttacgttatt ttatttccct    420
nnagcaaggc nggganttg ggactcgaaa tggtagcagt gggctgggga tcgcccttgt    480
tacataaaag ncttcagaa gagggacggt tacaggcngg ganctccaaa ggtcagtcct    540
tgccatt                                           547
```

<210> 670

<211> 232

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(232)

<223> n = A,T,C or G

<400> 670

```
cgaactatct agactaccta ggaaaaattat tttagtatca gaagaatatc aggggtgtag    60
tactcatcag agctaaatga gagcgcttta aaaatgttag tttgtcttcc gccatttcta    120
cagaaagctg caatttcagg ttttcaacct aataggtgat atttaaaaaa aaaaaaaagc    180
aatcgcaaat agccccactg cttttacaaa tcattttttc cccaacacaa tg           232
```

<210> 671

<211> 214

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(214)

<223> n = A,T,C or G

<400> 671

```
ctccccttcc ntccttcgct actnncatt ttcnnaaatt tntttcgcnt atgnggaaaa    60
acaccacat tnttcancct gcacagaaca ngngggggtg tgtaaaatga agggcttccn    120
cnccttctct tattnaanaa cactnaaana ggganggggt aaaaccgcg ngatntctac    180
nctatcgcg ggcgttttgg ngttggctag aaga                                           214
```

<210> 672

<211> 328

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(328)

<223> n = A,T,C or G

<400> 672

```

ngancagcgg ngtttaaacg ggctctaga ctcgaggaga cncctgttg atggtggatc      60
acanntcgnt actactatac aggacagagt atcggganct cttggntgtt ggngcctgcc      120
aaccactgct nctgttaact gcgtatctga agggactcgg actggcttca gaagaactac      180
cggtcgaat gnaccatgga tgattcncnc tagttgaaaa aaaactcagg cacatgtatt      240
gccactgatg actagcgcca gactnctctc ggctctntaa cgagcccaca tgncngtgtg      300
nncnccgtgc tgnctccaga agaggttc      328

```

<210> 673

<211> 223

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(223)

<223> n = A,T,C or G

<400> 673

```

gggggcaaaag ctggctagcg tttaaactta agcttggtac cgagctcgga tcccnagac      60
attgtgcatg aaaatgcaaa ttgagtgtgg tctatantgc catctcacc tncctgncgc      120
tcaaaacaac ngctttctgc tgcaatgggt agggctcctn acncacggtc gcnnacggag      180
gccnncttat cctentcggg nnggatccct ngaagcatnt tct      223

```

<210> 674

<211> 256

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(256)

<223> n = A,T,C or G

<400> 674

```

gnggggtcnt ngatgagcgc gcgtaatacn atcactntcn ggcgngntgg gtaccgggcc      60
ccccctnaa gcggcggccc ttttttntt ttttttcn acatgataa ntctttnttc      120
taaacagacc acaccactan agttcctttn cttngtacg gaattgagtt aaagtagagn      180
atacaatgca gggcttcnnc tctatttcac attccaggnt gggttcngnat ggatecgccc      240
tgcctctccg atgggt      256

```

<210> 675

<211> 439

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(439)

<223> n = A,T,C or G

```

<400> 675
nnactagtc agtgtggtgg aattccattg tgttgggctt gtatggggtt ttttgtctag    60
ttntttggga aatgttngtg ttactatntt ttggatatna tataatgatat gtatggccct    120
tctatgggct cctcanacng aactcaacca ttttccacaa aaccnattcc tcctttccct    180
tcatgactga gtggtgttgg tactatccng gaaactggga cattgtcctt cacatctntc    240
ccttanctgc ctngtccnat tgatgtcttt gagctntgan atgtctttgt taactntctc    300
ctnctctgt actgccggca naattaagca ccatntgtca caaaaagtat tgcgttacct    360
tcacgnatct gttingttnc atncttgctg cttctccngn ggaaaatagg ctnttctggc    420
aaccgaacng aanaaatac                                     439

```

<210> 676

<211> 587

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(587)

<223> n = A,T,C or G

```

<400> 676
ngngggcctn attaagcgcg cgtaatacna ctactnttgg ggcggaattg gtaccgggnc    60
cccctcaagt tnatntgecn aacctctctt ttggaataac aaaaggttta acacatatgt    120
cctcataggg acgcgcttcc acacnttccg gacngcttca tanacntcat tntattttct    180
cctcagnaca agttnaggen gaaggtgagg canacnttat aatttccatt tcacaaatnc    240
ggaaagtgag gctcaaaggg nttaaaaaat aacctgatac aantcataga gccggtntct    300
ggaanaagca ggagcaaagt ccaggcatcc tgatccaagc tnggtccact gccttccact    360
ctggagaggc ttcactctcg acaaaggaag ggacntgagt ggctgganaa tctcatggga    420
taaagacctc agnatctcat gctcctggaa atcccatggg ttgaacaaca ggtntttggc    480
ccgtggttct ntccctttgn ccactcttta accttggggg aaatgatggc ntctntnagc    540
nttttttttn aaagagatng aaattgaatg attattngct cattggg                    587

```

<210> 677

<211> 444

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(444)

<223> n = A,T,C or G

```

<400> 677
gtggggcatn attaagcgcg cgtaatacga ctactatag gggcggaantg ggtaccgggc    60
ccccctcgaa gcggccggcc tttttttttt tttttactgt ccaaactntc tatngatnta    120
gttgaactgt ncaacgattt catgaaattc tatacacana gccttcaggt ccagagagta    180
aaacaaattt aaatttnttc accanattgn agcagncana agcatccnat natatccgac    240
tacaatgaat natatgctna nggtanctna tttaccact ntgggggtctt tanggtctgt    300
cacaaactat tttogtaaac atcnntttta anttnggtga atggacctaa tnccagataa    360
ntctatttna tntaccctag catnctgtg gctnactttt cgggctgtgt tggcntactt    420
ttaggagaaa attggtataa atnn                                     444

```

<210> 678

<211> 670  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(670)  
 <223> n = A,T,C or G

<400> 678  
 actagtccag tgtggtggaa ttccattgtg ttgggagcag tttaaaaaaa aaaaagacna 60  
 aatatacnac tcttgatnaa acataaaggt acagtggctt atgaggaana gaaaaggtag 120  
 ctnaggatgc aaaantacct accacatggg aaccgttngt ccacactcat tccnnanaaa 180  
 accgagtcct ctcanttnca cacgtgtacg tttcagttgg gaagtgcctg ccattactcc 240  
 naagcctaga accttcacgt cctgaagggt ctggaagggt tttcagattg ctttaaganac 300  
 gcngcccttc catattentc tccactaccc nggggaacgg aacaaatgga gctgcgacng 360  
 ggaagcgctc ctcccentcc gaacgctttc tttcaaacct gcctgccttc cnggcgaatg 420  
 gaccggaagg ttttctnctt tcttttcanc ccnaattact tcttgngttg aaaattggcc 480  
 tggttggttg caaatgcngg aatttggtta ctttctncat gtctgtgtgt gnncnaaccg 540  
 gctcncctgt tgccctccct tngaaagggt ttcacagggc cccgcccttt ctctntaan 600  
 ngtcctaate cggncnggac cactcgggga aaattttttc ttttcgaaaa gccgccccnt 660  
 ccgtccggct 670

<210> 679  
 <211> 449  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(449)  
 <223> n = A,T,C or G

<400> 679  
 actagtccag tgtggtggaa ttccattgtg ttgggagtag gtctactaca ncctacttcc 60  
 cctatcatan aaganccttan caacnttcat gatccccccc tcntanncct tttcctcanc 120  
 tgcttcctag tctgtgttgt cctnttccta acantcntaa ganagatnac taatnctact 180  
 atctctnacc tccggaanct acaanacgtc tggaactatt cngaccccat gcancncat 240  
 nctccatcgt cctcccagcc cctncccttc ctttacntta ctnaacgaag gtgcagcgtc 300  
 cctcccntac ctcccnnncc attgggnccc aanggnactg gacctcacga ntacaccnac 360  
 tacggggnga ctaagnctgn aactccttac atatntcccc gttacccccc gaacncagcg 420  
 aacngcnaca ccttggacnt caagaanta 449

<210> 680  
 <211> 670  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(670)  
 <223> n = A,T,C or G

<400> 680



```

tttcngtgtg gtggaattcg cggccgcgtc gacgagaaga nggaggagga naaggagaag      60
gagaagaagg agaanaagga ggagaaggag aagaaggaga agaaatcatc atcatcatca      120
tccactgtct ngcaactatt taagtttgcn antcccttga aaacaggtac ttttgtttca      180
atgtttggga ccactnctga cnatgannag aanaccaata aatgcttgat naatgaaaaa      240
nccacttttt acctgttaga accctgaggc taagagaant gatgtgactc gacttagtta      300
ccacaaacta tgatcctagc atnaattggg gcatctcaac acctcaactc cctgtgcaag      360
aacagatttt caatgtctac tgatgatttt aaatggatta ntccctctct ttacttctta      420
agggcatgaa gntttatgaa acaaaactat ncagttccag acgcttaacc cacatagtgt      480
taatagtcac cttcaacaca cnactaaacc cccaaaaaan gntttttacg gngtttcgac      540
agttttcttt tctttttgac ttgnttaaca cccnngacaa ctttgtnctn tttccntgaa      600
tcacancctt cnaanancca atggtncggt tttttctcnt tcngggccct tccttnttn      660
aaaaccanac                                     670

```

```

<210> 681
<211> 494
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(494)
<223> n = A,T,C or G

```

```

<400> 681
tcatggtgtc cacagtctga tgtgagcgca ttaaatttaa ggatctccgc ctttctcctt      60
aaaactcagg acttggaat gancctagga agcgccccct cctccccan ccanatccaa      120
gccccggacc gctgcgnctc cagctgccc tagtgaaacc gccgaattcg aattcacact      180
cgnggggccc gcgaagggtg gcgcgccccg gggagcgccg gggcnagccc gagggactgc      240
aagccaanaa nggagggcatg ggtggcgggg ggcgcggtct gatccaggaa ggagcggagg      300
cgccgatcac aactctttna gacgccttgc ccgcgcctgg ccagcgcgca gntcgcagga      360
cgcgcgagc aggaactcgc tggagtttgc caagccccan gnctctggaa agtntgtagc      420
tccctttcgg ancgnctctt ctggcccttt gggacgggtg tgtcattggg cgggggtctg      480
tataaggggg ggac                                     494

```

```

<210> 682
<211> 263
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G

```

```

<400> 682
tgatcattca agcgnctgnc gnataacgat tgctnagecc aacctttcat agggtcgttc      60
ctttgggaat nggatgtcta ttgaatggca gggatagggg cactcggcac tcgcctctgg      120
tacagttttg catatatatc ctcatcgoga gcgagcgtag gggancgtta agtttgggga      180
aatgcncceg catgnccctn ccggagctta aacccccaac aatnccatt ttnaaaaaag      240
nttnttant taaaaaaaaa aac                                     263

```

```

<210> 683
<211> 255
<212> DNA

```

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(255)

<223> n = A,T,C or G

<400> 683

cttgcccggc	atgcacagac	ntntttacgg	acacnctact	ccaagngagc	ctgnanctgt	60
ctacgggtcaa	nctctaaggt	tngncantgc	cacanatggc	atagtcccga	gggcggtnan	120
tctggantgc	tctctgcact	tgaacntaaa	gcgcntttca	aganaggnc	aatngcctgc	180
ctcttgacaa	cnaacaancc	cacaccnacc	tangaccctn	tangcaagga	ctggattctg	240
naaatgcaat	acaca					255

<210> 684

<211> 922

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(922)

<223> n = A,T,C or G

<400> 684

acccttcatt	tcatgtgctt	ctattttctt	acatctttta	catgactaag	ggattaatga	60
aatcacctct	tcataatcat	gaccataatt	tcattccaaca	agtactcaag	tttgggtgta	120
gcactttatt	aatgcttacg	aattctctct	ctctccctct	ttctcttttc	cttagtcctt	180
gcacaataag	gattttttgaa	tgtataatat	catcttaggt	aagctttcat	atgggttttg	240
catatgaagc	ttatgactgt	cataagccat	accaagcctg	tggagtatgg	catgattttc	300
attacataat	ccaatgaaaa	tagacttatt	ttaaatccct	aactttgtag	ttttaatttg	360
tatttcacta	tcttgaaatt	aacagctagt	acttatccat	cacagcagtc	tcctactgac	420
atgaagcaag	ttgttgaaatg	cagtaganca	tgaatgaaag	cattttaatgt	tanacaaaaa	480
tgggtgatac	ccaagcattc	tgaattat	gcattcaagga	atgggacatg	tacatttagtg	540
gcattcattc	taccaatatg	tgacttgaat	tggtttttta	aaaaaaggan	aatgantttc	600
tcaatttgct	ttaaaaaatt	ttnaaaaagt	tcaatggcat	gctgctttgt	ctggacttaa	660
tttattaaca	attnttaanc	cttccttaag	gacanaattt	tggtgttcag	gacnccctg	720
aagggtctta	tttttnatan	nattccaaac	ccaaaagggtg	gtttaaaatg	ggnggggtcc	780
ccccncnaaa	atttggaaccg	gcttttttat	atttaaaaaa	ntnccnttt	gngtttgaaa	840
nctnaatacc	aattaagggg	gaattttacc	tnccagtggg	aaaaaaaaac	nctngccntt	900
naaaaaattc	ccnggagnca	at				922

<210> 685

<211> 531

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(531)

<223> n = A,T,C or G

<400> 685

tgaggctctg	taaaactgtt	cctctgctag	gcatacttca	tattctctat	attaaactca	60
------------	------------	------------	------------	------------	------------	----

```

tctttaattg gcatggaaga ttcattgttc caaatctcag atgaagatcc tatattggat 120
gcaattaagc ctggcagcgc cctcaaaaga cagtcttgct actgctagcc acagccagga 180
cacagtaaca gttccttcta gtgacccnag accataanaa atananatct aaagaattct 240
gactccaaag gcattagccc attcctggta ttgccaatta tgatagaaaa aattgccaag 300
ctoctgggac atggaaatac actcagtaca tttgagaact ggagaactan tttccaaaat 360
agtatgaaga catganggtg attgtagata tntgagtttg gagaanttga gggaaatcng 420
attacacatg tttactacaa gagatgttna taagtaaaga aggctgata tacaatctaa 480
cagacnantg agataaatct taantcacia ctgacntccc ttttggggcg g 531

```

<210> 686

<211> 336

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(336)

<223> n = A,T,C or G

<400> 686

```

ggngncctna tgagcgcgcg taatacgatc atatagggcg aattgggtac cgggcccccc 60
tcaagaacac tacaagctat gtcctcttct canagagccc tgaantttta acatattgaa 120
agctctnadc ttgccaanaa actccactta acttcaaaac acaccctcca cacacatcat 180
gatcaactna gatcttactg aaccagaatc ctnaatggca tacttcagga acaggggtcc 240
anagaagcag ttctcaaant gcagctnaaa aagaaaactga aaaccaatt catgcaanac 300
ctagggctta tttgagagca ttttccagtg cagatt 336

```

<210> 687

<211> 271

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(271)

<223> n = A,T,C or G

<400> 687

```

aatctgcact ggaaaatgct ctaaaataag ccctaggtct tgcatgaatt gggttttcag 60
tttcttttta agctgcactt tgagaactgc ttctctggac ccctgttcct gaagtatgcc 120
athtagatt ctggttcagt aagatctcag ttaatcatga tgtgtgtgga ggggtgtgtt 180
tgaagttnag tggagttctt tggcaagatc agagctttca atatgttnaa acttcagggc 240
tctctgagaa gaggacatag cttgtagtgt t 271

```

<210> 688

<211> 740

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(740)

<223> n = A,T,C or G

```

<400> 688
tgatgaagcg cgcgtnttac nactcactat nggggcgaan tatgggtacc gggnccccct      60
cgaagcggcc gccctttttt tntttttttg tgagagttaa aataaaatat ttgaggttaa      120
tttaaagttt gagtttaatt aaaatatatg gcatatccca agttgggctt tgcanaaaga      180
acacttctca ggaactgtta gttgggtgtac caggaactca gaagggtcct gttattaaat      240
atatttgtaa aatgcatgga ttctctgaan atcncctctgc atgtgagcaa cacttacatc      300
ncaaaccaaa attggcattg catacatnaa ccaatatttc ccaaacattt ctgggttatgg      360
cccaccccct ttgtgtanta cttattgctg ttttttgtaa ccctggggaa attacttaaa      420
atattcagct ggaaattaca ggcgttactt ttaaggganc aagaattaca gtgactcca      480
aaattgcaag tgttgattac tatttaagaa cccaagaatt tgaaagaaat ttgaaaagt      540
gaaaacngga aatnttaaat gacttctcaa attttgaaaa ctcnngnaaa catctccact      600
ttggtncctt tccttttaaaa attggctaaa aattntttnt tatncccacc ccattggaan      660
tncccccccc ctggaacaat tggattcccc tatttcctaa aaaacggccn cccccccg      720
ggngaacncc nacnttttgn                                     740

```

```

<210> 689
<211> 635
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(635)
<223> n = A,T,C or G

```

```

<400> 689
actagtccag tgtgggtggaa ttccattgtg ttgggattac atatactttt agcaattttt      60
aaagaagtgt acaaagttga gatgtttcct gagctctcat atatctgana atgtcatttt      120
acatctccgt cttcacctct caaaacttct ttcaattctt tggctcttaa tagtaatcaa      180
cacttgcact ctggagtcac tgtaattctt gctcctttac agctacnctt gttatttcca      240
gctgaatatt tttagttatt tcccagggtt ccaaaaaaca gcaataagta ctacacaaag      300
ggggtgggcc ataaccagaa atgtttggga aatactggct catgtatgca atgccaaatc      360
tggtttgnaa ttgtantgtt gctcacatgc agagtgaatc ttcaaanaat ccattgcattt      420
tccaaatata tttaataaca ggggaacctt tganttcctg gntacaccaa ctaacagttc      480
ctgaaaaatg ttctttctgc aaaacccaac ttggggatat gccatatatt ttaattaaac      540
tcaaaactta aattaaactn caattatttt attttaaact cctcaaaaaa aaaaaaaaaa      600
agggggggcc cttccaangg ggggnccggt tcccc                                     635

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```

<210> 690
<211> 3923
<212> DNA
<213> Homo sapien

```

```

<400> 690
acagaagaaa tagcaagtgc cgagaagctg gcatcagaaa aacagagggg agatttgtgt      60
ggctgcagcc gagggagacc aggaagatct gcatgggtggg aaggacctga tgatacagag      120
gaattacaac acataactt agtgtttcaa tgaacaccaa gataaataag tgaagagcta      180
gtccgctgtg agtctcctca gtgacacagg gctggatcac catcgacggc actttctgag      240
tactcagtgc agcaaagaaa gactacagac atctcaatgg caggggtgag aaataagaaa      300
ggctgctgac tttaccatct gagggccacac atctgctgaa atggagataa ttaacatcac      360
tagaaacagc aagatgacaa tataatgtct aagtagtgac atgtttttgc acatttccag      420
cccctttaaa tatccacaca cacaggaagc acaaaaggaa gcacagagat ccctgggaga      480
aatgcccggc cgccatcttg ggtcatgat gagectcgcc ctgtgcctgg tcccgcttgt      540
gaggaagga cattagaaaa tgaattgatg tgttccttaa aggatgggca ggaaaacaga      600

```

tctgtgtgtg	gatattttatt	tgaacgggat	tacagatttg	aatgaagtc	acaaagtgag	660
cattaccaat	gagaggaaaa	cagacgagaa	aatcttgatg	gcttcacaag	acatgcaaca	720
aacaaaatgg	aatactgtga	tgacatgagg	cagccaagct	ggggaggaga	taaccacggg	780
gcagaggggc	aggattctgg	ccctgctgcc	taaactgtgc	gttcataaacc	aaatcatttc	840
atattttctaa	ccctcaaaac	aaagctgttg	taatatctga	tctctacggg	tccttctggg	900
cccaacattc	tccatatatc	cagccacact	cattttttaat	atttagttcc	cagatctgta	960
ctgtgacctt	tctacactgt	agaataacat	tactcatttt	gttcaaagac	ccttcgtgtt	1020
gctgacctaat	atgtagctga	ctgttttttc	taaggagtgt	tctggcccag	gggatctgtg	1080
aacaggctgg	gaagcatctc	aagatctttc	cagggttata	cttactagca	cacagcatga	1140
tcattacgga	gtgaattatc	taatcaacat	catcctcagt	gtctttgccc	atactgaaat	1200
tcattttccc	cttttgtgcc	cattctcaag	acctcaaaat	gtcattccat	taatatcaca	1260
ggattaactt	tttttttttaa	cctggaagaa	ttcaatgtta	catgcagcta	tggggaattta	1320
attacatatt	ttgtttttcca	gtgcaaagat	gactaagtcc	tttatccctc	ccctttgttt	1380
gatttttttt	ccagtataaa	gttaaaatgc	ttagccttgt	actgaggctg	tatacagcac	1440
agcctctccc	catccctcca	gccttatctg	tcatacccat	caacccctcc	cataccacct	1500
aaacaaaatc	taacttgtaa	ttccttgaac	atgtcaggac	atacattatt	ccttctgcct	1560
gagaagctct	tccttgtctc	ttaaatctag	aatgatgtaa	agttttgaat	aagttgacta	1620
tcttacttca	tgcaaagaag	ggacacatat	gagattcatc	atcacatgag	acagcaaata	1680
ctaaaagtgt	aatttgatta	taagagttta	gataaatata	tgaaatgcaa	gagccacaga	1740
gggaatgttt	atggggcacg	tttgtaagcc	tgggatgtga	agcaaaggca	gggaacctca	1800
tagtatctta	tataatatac	ttcattttctc	tatctctatc	acaatatcca	acaagctttt	1860
cacagaattc	atgcagtgca	aatccccaaa	ggtaaccttt	atccatttca	tgggtgagtgc	1920
gcttttagaat	tttggcaaat	catactggtc	acttatctca	actttgagat	gtgtttgtcc	1980
ttgtagttaa	ttgaaagaaa	tagggcactc	ttgtgagcca	ctttagggtt	cactcctggc	2040
aataaagaat	ttacaaagag	ctactcagga	ccagttgtta	agagctctgt	gtgtgtgtgt	2100
gtgtgtgtgt	gagtgtacat	gccaaagtgt	gcctctctct	cttgacctat	tatttcagac	2160
ttaaaacaag	catgttttca	aatggcacta	tgagctgcc	atgatgtatc	accaccatat	2220
ctcattattc	tccagtaaat	gtgataataa	tgtcatctgt	taacataaaa	aaagtttgac	2280
ttcacaaaag	cagctggaaa	tggacaacca	caatatgcat	aaatctaact	cctaccatca	2340
gctacacact	gcttgacata	tattgtttaga	agcacctcgc	atttgtgggt	tctcttaagc	2400
aaaatacttg	cattaggtct	cagctggggc	tgtgcatcag	gcggtttgag	aaatattcaa	2460
ttctcagcag	aagccagaat	ttgaattccc	tcactcttta	ggaatcattt	accagggtttg	2520
gagaggattc	agacagctca	ggtgctttca	ctaattgtctc	tgaacttctg	tccctctttg	2580
tgttcatgga	tagtccaata	aataatgtta	tctttgaact	gatgctcata	ggagagaata	2640
taagaactct	gagtgatatc	aacattaggg	attcaaagaa	atattagatt	taagctcaca	2700
ctgggtcaaaa	ggaaccaaga	tacaaagaac	tctgagctgt	catcgtcccc	atctctgtga	2760
gccacaacca	acagcaggac	ccaacgcgatg	tctgagatcc	ttaaatcaag	gaaaccagtg	2820
tcatgagttg	aattctccta	ttatggatgc	tagcttctgg	ccatctctgg	ctctcctctt	2880
gacacatatt	agcttctage	ctttgcttcc	acgactttta	tcttttctcc	aacacatcgc	2940
ttaccaatcc	tctctctgct	ctgttgcttt	ggacttcccc	acaagaattt	caacgactct	3000
caagtctttt	cttccatccc	caccactaac	ctgaatgcct	agacccttat	ttttattaat	3060
ttccaataga	ttctgcctat	gggctatatt	gcttttagatg	aacattagat	atttaaagct	3120
caagaggttc	aaaatccaac	tcattatctt	ctctttcttt	cacctccctg	ctcctctccc	3180
tatattactg	attgcactga	acagcatggg	ccccaatgta	gccatgcaaa	tgagaaacct	3240
agtggctcct	tgtggtacat	gcatgcaaga	ctgctgaagc	cagaaggatg	actgattacg	3300
cctcatgggt	ggaggggacc	actcctgggc	cttcgtgatt	gtcaggagca	agacctgaga	3360
tgtccctgc	cttcagtgtc	ctctgcatct	cccccttcta	atgaagatcc	atagaatttg	3420
ctacatttga	gaattccaat	taggaactca	catgttttat	ctgccctatc	aattttttta	3480
acttgctgaa	aattaagttt	tttcaaaatc	tgtccttgta	aattactttt	tcttacagtg	3540
tcttggcata	ctatatcaac	tttgattctt	tgttacaact	tttcttactc	ttttatcacc	3600
aaagtggctt	ttattctctt	tattattatt	attttctttt	actactatat	tacgttggtta	3660
ttattttgtt	ctctatagta	tcaattttatt	tgatttagtt	tcaattttatt	tttattgctg	3720
acttttaaaa	taagtgattc	ggggggtggg	agaacagggg	agggagagca	ttaggacaaa	3780
tacctaatgc	atgtgggact	taaaacctag	atgatgggtt	gataggtgca	gcaaaccact	3840

```

atggcacacg tatacctgtg taacaaacct acacattctg cacatgtatc ccagaacgta 3900
aagtaaaatt taaaaaaaag tga 3923

```

```

<210> 691
<211> 882
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(882)
<223> n = A,T,C or G

```

```

<400> 691
ttactcacta tagggctcga ggggcccgtg aattctgctg cagtgaagctg tgattatgtc 60
cctgcactcc agcctggatg acagaacacg atcatttctc taaagacaaa caaaaaacat 120
aaaataaaaac tagtataagg atagaagccc agggttgatt taagtctgcg gaaatcataa 180
accataggctc agacttctca ttgatgaggt acttggtgggt tagaatacaa ttaggtatat 240
ttggtctaga aaccaggatg gaattagaga ataaaagact gagcaatagc atgttatagt 300
attagaaata ctatagaaat aggaaaagcc ctgattatga ctttgagggt ctgatccaac 360
atctgggatt atttagatat tttaaaggaa aacgatgact tttagctctc aggatgtag 420
tttcctcaac cataaaatga agagcctcga aaagatttcg tttaccagat tatttctgaa 480
gtcaattcca gttctaaaaat tccatcactg ngcactaagg caaattgaat tgaataaagt 540
attgggnatg cataaaatac tctattttta aaaangaata gtaattatcc attggnaaca 600
gacgcantca tccagncatc tectaccctg ncccatgncn tatgtagana tgtanctcta 660
atcccttaac aaaccgattt tgcaaaggag cttanccttg gggtagcttg tcanggcaac 720
tggtctactt tnaagactca tcttcactta ctgggcacca aatncctacc attgcatcaa 780
actgggggtc ccatncaagg caaaccctgn gaaatcttta atcccgaat tggcgcccaa 840
tttgnngggg ttccnaaaaa gaatentccc ccccgagggg cc 882

```

```

<210> 692
<211> 235
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(235)
<223> n = A,T,C or G

```

```

<400> 692
ccgcactngt aangnccgcc agngngctgn aantccgctn agcncggatc cactagtcca 60
ttgatggtaa aagggtagct tactggnatg tccgntctgt ccanganata atacncagga 120
cttctcanag cacttaatat gttaatatata aactncgnga aaaaagatnt tcnatgaanc 180
nttcctctta ggaggtcagg ngagaatagt gttaatgnca ttaagganag aacga 235

```

```

<210> 693
<211> 383
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(383)

```

<223> n = A,T,C or G

<400> 693

nttatgtaag	aaatgtcata	tatcttttat	tttcttttaa	tcaaaataaa	tatgactttg	60
agcatcccat	cccatgcccc	atcctatcag	aatggtagga	acatcaacac	aaataattag	120
taatgcaccg	catctacatt	cccatgctct	ctttacttct	tcagcattgc	ctaaaggcat	180
aatacacctt	taattaatta	attcagcctc	ctaatgcaca	ttaacaaagc	ccctgctaga	240
ctctgtccat	aatggnaaac	ctgnatgac	cttgatatta	acantttaag	gaatgctcat	300
ggattggtn	cagacttaaa	aaattgaggg	ggctgaanaa	aatctaangg	anaaatcatg	360
gaagcatttg	cacatattac	ata				383

<210> 694

<211> 204

<212> DNA

<213> Homo sapien

<400> 694

tctcttggt	ggtcagcctg	aaggggtgta	atgactcacc	aacgctacta	atccttcttc	60
actgtccctt	atttttttcc	ctcccaggct	cataactcga	ggttaaactc	tcttttatac	120
aagaaccctg	tctgatgaag	catcatttca	gaattttaag	tcaacttaca	aatgtggtat	180
tattcacatc	tgagtacaaa	tta				204

<210> 695

<211> 670

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(670)

<223> n = A,T,C or G

<400> 695

gcaccagccc	aggtgctggt	tcttcacttg	agctccatga	ccctccctgt	gtggtggggt	60
gaacggtgac	ctccaaaaga	tatgtccacc	tggaacctca	gaataagatc	ttatttgtaa	120
tagtctttgt	agatgtcagt	aaggtaaaga	tttgagatg	agaccctcct	ggattaggg	180
aggccctagg	tccactggca	ggtgtgcttc	tcagggtctg	aaaggggaag	acagggccac	240
ccagaggagg	agacggaggc	agagacaggg	ccaccagag	gaggagacgg	aggcagagac	300
agggccaccc	agaggaggag	acggaggcag	agacaggggc	caccanagg	aggagacgga	360
ggcagagaca	gggccaccca	gaggaggaga	cggaggcaga	gacagggcca	cccaaaggag	420
gagacggagg	cagaanacag	gcccccccaa	agaaganacc	ggaggcanaa	aacagggcca	480
ccanaggag	gagacggagg	canaaacagg	gccaccccaa	aggaggagac	ggaggcaaaa	540
cagggccacc	caaaaaggagg	aagccggaag	gaaaaaacag	ggcccccca	aaggaggaa	600
ncggagggcn	aaaaanaggg	cccccccaa	agngagaaaa	cnnggnaggc	nanaaaaccn	660
ggggcccnnc						670

<210> 696

<211> 317

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(317)

<223> n = A,T,C or G

<400> 696

tgacccgttn	tttctgcaaa	ggagagtggg	gaaggagggg	tgggaagaca	aaagttacat	60
gttagcaggg	aagagaacag	aattttatcc	acccttatct	ctttagtgag	tgaacaaaca	120
gcccactgtc	atcgtggata	catttcactt	ttttcacatg	actaaggagc	tctccggagt	180
gaagagtgag	taaatatggt	tattacgcat	tcatttgcta	agaatcatca	agaacccaaa	240
gttagagacg	tttcgtgggt	gaactttctc	cctactgtct	agtagaatta	tatggggatt	300
ctggatctgc	tggtgcc					317

<210> 697

<211> 246

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(246)

<223> n = A,T,C or G

<400> 697

ctncagctct	aatcgactnc	tatnaggnat	gatggcncgt	gcngcgcgta	cgtantgctt	60
ggatcctcnn	anagcggacg	cctactacta	ctaaattcgc	ggncgcgttg	actttttttg	120
tttttttct	tnacagagnt	ntttttgtgc	ccttggttct	tatgctcana	ctcngcaaaa	180
aanatcaaaa	gntacnnatg	aaaaacntat	nccatctnca	naaaggaggt	gnagntatta	240
ctttct						246

<210> 698

<211> 3674

<212> DNA

<213> Homo sapien

<400> 698

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<213> Homo sapien

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&lt;211&gt; 2904

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 703

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<211> 4034

<212> DNA

<213> Homo sapiens

<400> 704

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<210> 705

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<212> DNA

<213> Homo sapiens

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<210> 706

<211> 123

<212> PRT

<213> Homo sapiens

<400> 706

```

Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu Val Phe
      5                                10                        15

```

```

Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val
      20                                25                        30

```

```

Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys
      35                                40                        45

```

```

Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu Thr Gly
      50                                55                        60

```

```

Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala Ser Leu
      65                                70                        75                        80

```

```

Tyr His Arg Glu Lys Gln Val Leu Ile Gly Gln Trp Val Glu Ser Gly
      85                                90                        95

```

```

Trp Glu Gly Trp Ser Gly Phe Leu Gly Gly Gln Leu Ala Gln Asn Leu
      100                               105                        110

```

```

Val Ser Gly Lys Gln Leu Trp Arg Met Leu Leu
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```

<210> 707  
 <211> 150  
 <212> PRT  
 <213> Homo sapiens

<400> 707

Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala  
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Gln Leu Leu Leu Val Asn Leu Leu Thr Phe Gly Leu Glu Val Cys Leu  
                   20                  25                  30

Ala Ala Gly Ile Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val  
                   35                  40                  45

Glu Glu Lys Phe Met Thr Met Val Leu Gly Glu Ser Leu His Pro Pro  
                   50                  55                  60

Ser Phe Leu Phe Gln Ile His Ala Thr Trp His Val Gly Gln Glu Tyr  
                   65                  70                  75                  80

Leu Cys Pro Gly Ser Cys Leu Glu Gly Glu Val Val Cys Trp Glu Gly  
                   85                  90                  95

Ile Ala Gly Gln Glu Gly Asp Pro Gly Leu Arg Gly His Thr Lys Arg  
                   100                  105                  110

Lys Lys Arg Ile Pro Arg Thr Tyr Pro Ser His Leu Trp Ile Pro Gly  
                   115                  120                  125

Pro Ala Gln Ser Leu Ala His Arg Arg His Trp Arg Asn Ala Pro Asn  
                   130                  135                  140

Leu Trp Leu Ala Leu Leu  
                   145                  150

<210> 708  
 <211> 371  
 <212> PRT  
 <213> Homo sapiens

<400> 708

Met Leu Phe Pro Ser Phe Ser Arg Ser Leu Val Pro Leu Pro Leu Ala  
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Leu Tyr Leu Ser Gln Pro Leu Thr His Thr Thr Ser Leu Leu Ala Gly  
                   20                  25                  30

Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala  
                   35                  40                  45

Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp

50	55	60
Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala		
65	70	75 80
Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu		
	85	90 95
Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val		
	100	105 110
Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro		
	115	120 125
Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu		
	130	135 140
Gly Gly Cys Leu Gly Tyr Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser		
145	150	155 160
Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu		
	165	170 175
Leu Thr Leu Ile Phe Leu Thr Cys Val Ala Ala Thr Leu Leu Val Ala		
	180	185 190
Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala		
	195	200 205
Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe		
	210	215 220
Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg		
225	230	235 240
Met Pro Arg Thr Leu Arg Arg Leu Phe Val Ala Glu Leu Cys Ser Trp		
	245	250 255
Met Ala Leu Met Thr Phe Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu		
	260	265 270
Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg		
	275	280 285
Arg His Tyr Asp Glu Gly Lys Ala Leu Ala Ala Ser Arg Gly Trp Cys		
	290	295 300
Gly Ser Arg Pro Pro Glu Thr Thr Leu Gly Ala Val Ser Gly Leu Val		
305	310	315 320
Pro Leu His Pro Gly Pro Asp Phe Ser Val Arg Lys Val Gly Met Asp		
	325	330 335
Pro Ile Cys Ile His Gly Phe Ser Trp Val Trp Asn Ile Ser Ala Cys		

340

345

350

Gly Phe Arg Lys Ala Ser Gly Cys Ser Arg Ser Leu Ile Arg Val Val  
 355 360 365

Ala Pro Val  
 370

<210> 709  
 <211> 141  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(141)  
 <223> n=A,T,C or G

<400> 709  
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 tccacanata aantgactca ttcctctcct cgcatanccc actntcccct ngcgataccg 120  
 taacnaancc cttccccctt t 141

<210> 710  
 <211> 196  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(196)  
 <223> n=A,T,C or G

<400> 710  
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 gtcncatcc acccgtaact ctcccentaa ncnataaccc cttttngcga atagacccca 120  
 ccttancaat nggttttttcn ttttttgtec ctnggnccgn gcgattcaan aaattgaagg 180  
 cccanaaaaa ccccct 196

<210> 711  
 <211> 177  
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 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(177)  
 <223> n=A,T,C or G

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 tantctogga tgtgcagtca caagtctttt gctaattctt ataattntcn ctaccctttc 120  
 ttcnacaata ctgctatcct anttnttctn tencctctct cccannttac taaccac 177

<210> 712  
 <211> 185  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(185)  
 <223> n=A,T,C or G

<400> 712  
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 ctggttggtcc gtgtcgcacg ganggccacg tccctctgnc ntgagtanca catagcatcc 120  
 acgttttagtc gactntnccg ggcgggccgct ctaccctnt atngattcct attaaaantc 180  
 ggate 185

<210> 713  
 <211> 172  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (1)...(172)  
 <223> n=A,T,C or G

<400> 713  
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 cactacacgg cncctnccg agccnnggtc agtgctnct nggagacctt ctctggggca 120  
 ggangagcac tnggtatgtt cacgtatnc ttcntaaana tacnnccctc cg 172

<210> 714  
 <211> 112  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(714)  
 <223> n=A,T,C or G

<400> 714  
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 ctactatnc ggcanccgag gcgcagcagg gaanggggtca cctcccagtc tc 112

<210> 715  
 <211> 326  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(326)

<400> 715

<210> 716

<211> 122

<212> DNA

<213> Homo sapiens

 $\langle 220 \rangle$ 

<221> misc feature

$$\langle 222 \rangle \quad (1) \dots (122)$$

<223> n=A, T, C or G

<400> 716

[illegible]

<210> 717

 $\langle 211 \rangle$  203

<212> DNA

<213> Homo sapiens

 $\langle 220 \rangle$ 

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (203)$ 

<223> n=A, T, C or G

<400> 717

```

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ngntggacca   ngttggtttt   cttgcgtgtg   tgtggcagta   gtaagttatt   agtttttana   180
atcantaccg   cctccgcac   cac                                     203

```

<210> 718

$\langle 211 \rangle$  168

<212> DNA

<213> Homo sapiens

 $\langle 220 \rangle$ 

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (168)$ 

<223> n=A, T, C or G

<400> 718

ggcagganga tcncttgagc ccnngagggtc gaggctacag tgagccanga gtgcactact 60  
gtnnccgcect ccgcatncac gngtggtccg atccccgggt accganctng anttcactgg 120



antttcttttt aancgtnttg antggtacna cctctgantic cctggctg 168

<210> 719  
 <211> 210  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(210)  
 <223> n=A,T,C or G

<400> 719  
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 ctcaagctct tncanngtcc agtnaangga atgtgtatnn gtngggatnc cacanaaaaa 120  
 aganatntcg gncgetteat tantcatect tcttaccan ntctctngat nencagtntg 180  
 ancntgaacg cacactacng gatntctcca 210

<210> 720  
 <211> 131  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(131)  
 <223> n=A,T,C or G

<400> 720  
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 gaagcacccc t 131

<210> 721  
 <211> 121  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(121)  
 <223> n=A,T,C or G

<400> 721  
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 a 121

<210> 722  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (1)...(246)  
 <223> n=A,T,C or G

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 gnttcntcga tatgaanaac actaatccca tgtngtntgn gtctccgtga ttcattccctc 120  
 gcacnggtcc ccntccnaac cnttgcatag gtgttatgtt gtantctccc cagtgcacaa 180  
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 atcaag 246

<210> 723  
 <211> 160  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(160)  
 <223> n=A,T,C or G

<400> 723  
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 gnacnanta gcggtncceg anatincaacg ccctacgtc 160

<210> 724  
 <211> 156  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(156)  
 <223> n=A,T,C or G

<400> 724  
 tnanccnata tacaccaaatt tctgattcta aantcccacc caagggaataa aagttgagaa 60  
 gagcctttcc acttttctac taataaaaaa atgcaccagc ccctaccann agtgnggaaa 120  
 acctccttag gcccttgntt ggaacaancg aaaatc 156

<210> 725  
 <211> 347  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(347)  
 <223> n=A,T,C or G

<400> 725  
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gagcccgcgg ncagacgccc catcagtagc gtccgcaccg ggnagccgcg gntctcgccc 180
gagccgtggg cgcgcccag gggcgggctc gcctcccgcc gtccctcgca gctctgccgg 240
gcccagagccc gcgcgctcgc cgcgcgcgnc ttgcgctcg gnccgcgcg nccggnaaac 300
gcggtcgagg tctggatgng gcanngccc cncctntcgc tgagcct 347

```

```

<210> 726
<211> 162
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(162)
<223> n=A,T,C or G

```

```

<400> 726
ttgggtgggt tgggtggggg naaatttncc catttgggtg ggtttggggg ggnaaatact 60
tccgccttt tnggtnccca aaganacnaa gggggagtcc cttnatagag gnagncgcat 120
nntcncaac nacntngact ttgnccatgg ggagnaaggt gg 162

```

```

<210> 727
<211> 120
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(120)
<223> n=A,T,C or G

```

```

<400> 727
gtgtgggtgg ggaattccat tgtggttggg ggnaaatctc cgcttgtcca aagnacaggg 60
ggggtcnctt anagngnagg gggttcctcc ccaccacttg ncttgnccat tngagnaag 120

```

```

<210> 728
<211> 130
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(130)
<223> n=A,T,C or G

```

```

<400> 728
gacctactgc agcgttnaac ttagcttggg ccgagctcgg atccctagtc cgtgtggtgg 60
aattccatgt gtgcagagag gggcaaatac nctccaanac ancnccctca tgctcnacac 120
atattcgcat 130

```

```

<210> 729
<211> 182
<212> DNA
<213> Homo sapiens

```

<220>  
 <221> misc\_feature  
 <222> (1)...(182)  
 <223> n=A,T,C or G

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 gctggctgct tccagtcgat tanatttggtg aaaaagctga accnngccn gttaaggggg 120  
 annatgcaaa anatncatcc nntgccccn taaactgntc tntccnaggg aaaaaangga 180  
 ag 182

<210> 730  
 <211> 678  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(678)  
 <223> n=A,T,C or G

<400> 730  
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 agcctgagtt tggggctctt ggctttctca cctctctcgg cccctctcct ggccccgacc 180  
 aggccaaacc ggggcagccg taccttgagc ttgtgtccgg cctctcctc cccctctgcc 240  
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 cgctgtgcc tctcggtta gcccacgct caactcaagc tggggcactg tcacggtggg 480  
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 ttggaaggna aatncccc 678

<210> 731  
 <211> 135  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(135)  
 <223> n=A,T,C or G

<400> 731  
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 gatccgagct aagcc 135

<210> 732  
 <211> 660  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(660)  
 <223> n=A,T,C or G

<400> 732  
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 tcaatcagnt nacgagctgc atggctctgt aacattgtca taattgctgg catagattac 120  
 tgaaaataaa gaaaaaaaat tgaagctgcc tatcaagttt tggattatc aaaaacttcc 180  
 tacaagttat tttacttcaa ccattgttatt acaaatattt taatgaatac tttagagact 240  
 ttaattacaa aaaactgaga tagtaaaagc aagtaataaa agctgaaatt acttagctat 300  
 ttgataatta cataaattat tatgggtccat tcaacttttc tagtgtttag tttatacacc 360  
 aggaagactt tcctattcta ctaacattta taaagtatgc taacctatta tttaaacgca 420  
 tccactatta ggattttatg gcctaaaacg tgatacagtt cagtatcttg atgtcaaac 480  
 tttttaagca agtagggatt aagttcaagt gaatgtgatt ttctttcttc ccagtagggt 540  
 cttctgaata actcagnaaa gctcacttcc attatcttac tttataaaaa aatgctataa 600  
 gacagaatgg gccgacgtgg nggctccacc tgtatccacc tttggaggcg agnggcgaat 660

<210> 733  
 <211> 836  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(836)  
 <223> n=A,T,C or G

<400> 733  
 aattaatgac tttttttccg ccctgccaaag ctagtttgtc taaatataat gtaaagaaat 60  
 tagctactca ttttctgggc cacgaagggt cctaaaatgg gaagaagtgg agatctgacc 120  
 ttgttagttc taaatacact aaactgggag tgccatggat ggctttcagg atgtcctgaa 180  
 tcctctataa ttgtatacaa aatcgtgagt ttttaaaaac tgggttagag ctattgggtc 240  
 ctgagagtct caggcatctt agaccccaa aaagggttaag gactactgac ttaaccaatt 300  
 aggtttgagt ggcatgggt ttgaagaaaa gcagaggaaa gatataattt ataattctgg 360  
 gcaacaaaaa agtggatgtg tgccagcatc ttagagtaga atcctcttaa aaggatagca 420  
 ctgcatatga actagtaggt ttaaccagt gcataattag gcgaagtagc tcatttttct 480  
 gttagaattc ttttttattt gggaatgggc aagcttttac agcttttacc ttgccaatga 540  
 atacctgga tttaaaaaat ctgttaggc atattgcca taaagttttt tttcctagat 600  
 catatattca gtaaataatgt ttgtagcttt atttcaatcc cccaattcat tgagggttga 660  
 aacaatttga atggtttgag tgtagaagct aagttatttc tgtagaggct aagggcattt 720  
 ataccaanat atgttagact tgnngntcct gtaaccatg ctgtanacaa taggaattac 780  
 tgtatatcca cattttaatt ttaacatctt ctgctttgnt gntggtttga gangga 836

<210> 734  
 <211> 694  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(694)  
 <223> n=A,T,C or G

```

<400> 734
nagtnctatt tncactaaac tngngagtgcc ttggatggct ttcaggatgt cctgaatcct 60
ctataattgt atacaaaatc gtgagttttt aaaaactggg ttagagctat tggttcctca 120
gagtctcagg catcttagac ccccaaaaag gttaaggact actgacttaa ccaattaggt 180
ttgagtggca ttggctttga agaaaagcag aggaaagata tattttataa ttctgggcaa 240
caaaaaagtg gatgtgtgcc agcatcttag agtagaatcc tcttaaaagg atagcactgc 300
atatgaacta gtaggtttta accagtgcac atttaggcga agtagctcat ttttctgtta 360
gaattctttt ttatttgga atgggcaagc ttttacagct tttaccttgc caatgaatac 420
ctggaattta aaaaatcttg ttaggcatac tgcccataaa gttttttttc ctatgcata 480
tattcagtaa atatgtttgt agctttatct caatccccca attcattgag ggttgaaaca 540
atttgaatgg tttgagtgt gaagctaagt tatttctgtg gaggctaagg gcatttatac 600
caagatatgt tagacttgtg gttcctgtta accattgctg tagacaatag gaattactgt 660
atatccacat ttttaattttt aacatcattc tgtc 694

```

```

<210> 735
<211> 126
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(126)
<223> n=A,T,C or G

```

```

<400> 735
ncnttgaaac ngggtgacca gacttcaggc ctgtgcgctc aatcgtggag aatctcgtgc 60
cgaattcggc acgagtctct ctctctctct ctctctctct ctctctctct ntctctctct 120
ctctct 126

```

```

<210> 736
<211> 165
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(165)
<223> n=A,T,C or G

```

```

<400> 736
cagaagcctt taaaccgggt ngaccagact tcaggcctgt gcgctcaatc gtggagaatc 60
tcgtgccgaa ttcggcacga gtctctctct ctctctctct ctctctctct ctctctctct 120
ctctctctct ctctctctct ctctctctct ctctctctct ctctc 165

```

```

<210> 737
<211> 125
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(125)
<223> n=A,T,C or G

```

<400> 737  
 ggnagcccct ttaaccgttt gtccagactt caggcctgtg cgctcaatcg tggagaatct 60  
 cgtgccgaat tcggcacgag tctctctctc tctctctctc tctctctctc tctctntctc 120  
 tctct 125

<210> 738  
 <211> 137  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(137)  
 <223> n=A,T,C or G

<400> 738  
 ggagncnctt gancaggatg accgacttca ggccctgtgcg ctcaatcgcg gagaatctcg 60  
 tgccgaattc ggcacgagtc tctctctctc tctctctctc tctctctctc tctctctctc 120  
 tctctctctc tctctct 137

<210> 739  
 <211> 970  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(970)  
 <223> n=A,T,C or G

<400> 739  
 aggcctatatt aggtgacact atagaacaag tttgtacaaa aaagcaggct ggtaccggctc 60  
 cggaattcgc ggccggcgctg acggcccttn gtgccactag ntctttcatt cttccccccc 120  
 atcaatcagt gaacttttta gcctactcaa agctttgctc caatgcatag gatttatgat 180  
 tgtgggggatt tccagataat ataaatattc aacatgaata ttttaaatta aggcattgaga 240  
 catttttcct aactgagcat agccatgaac ctctcacgtc tgttcctctg tgcagtttg 300  
 tancactgaa tacagcagcc ctcttaaaag tccaggcagt gcacaggctc tgacatgatg 360  
 aagtgcagtg ttgctatggt gattttgcag ctggccaaat agtcactggt tgattttacc 420  
 cagcaggaga tttttgcaaa aatttccttg gtgagagtga aatcaaactc ctattttgnt 480  
 tctcctctgc aagctgnagt taagatggat taatgagtac ttttagatta attaaactctg 540  
 aagagaaaaat gggagaaaag tgaggaaggt tgttggcaga agtcattgct ggaatccttc 600  
 tgaaggaggat actgacttca cttgcaaaga cnagagacta naagacaatg aagttaaact 660  
 tggcctgtct ctcatatgat agatgctgag agtcaggntc agggaaattt aattctgtca 720  
 tacgcataatn ggattatgtg gtcattggatt tgttggcact aaccngcctn taatcagnat 780  
 aagaaaagtg ttttggtaga naaagaaaat tatggcccag aaaaacctgg aanacttgga 840  
 aaaaatgntn gggggccttg ggtggtggtc tnaaaanacc ccctggggat ntttaaacca 900  
 aaantgaaga agggaaaaat ntttcccnt nttttntttt tttgccccct tgggattggg 960  
 tttntttcc 970

<210> 740  
 <211> 739  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(739)

<223> n=A,T,C or G

<400> 740

```

gntgtcnaaa aagcaggctg gtaccgggtcc ggaattcgcg gccgcgtcga cggcccttgg 60
tgccactagt tctttcattc ttcccccncca tcaatcagtg aacttttttag cctactcaaa 120
gctttgctcc aatgcatagg atttatgatt gtgggggattt ccagataata taaatattca 180
acatgaatat tttaaattaa ggcatgagac atttttccta actgagcata gccatgaacc 240
tctcacgtct gttcctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
ccaggcagtg cacagggtctt gacatgatga agtgacgtgt tgctatggtg attttgcagc 360
tggccaaaata gtcaactggtt gattttaacc agcaggagat ttttgcaaaa atttcctggg 420
tgagagtga atcaaactcc tattttgttt ctctctgca agctgnagtt aanatggatt 480
aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggtt 540
gttggcagaa gtcattgctg gaatccttct gaagggagta ctgacttcac ttgcaaagac 600
aagagactan aagacaatga agttaaactt ggctgtctn tcatatgata gatgcttgag 660
agtacag'gnt cagggaaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720
ctttgtttgg cncctaacc
739

```

<210> 741

<211> 1171

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(1171)

<223> n=A,T,C or G

<400> 741

```

gccttgnggt gacactatag aacatgtttg tacaaaaaag caggctggta ccggtccgga 60
attecgggcc gcgtcgacgg cccttnntgc cactagtctt ttcattcttc ccccccatca 120
atcagtgaac tttttagcct actcaaagct ttgctccaat gcataggatt tatgattgtg 180
gggatttcca gataatataa atattcaaca tgaatatttt aaattaaggc atgagacatt 240
tttccctaact gagcatagcc atgaacctct cacgtctgtt cctctgtgtc agtttgtagc 300
actgaatata gcagccctcc taaaagtcca ggcagtgcac aggtcttgac atgatgaagt 360
gaogtgttgc tatggtgatt ttgcagctgg ccaaatagtc actggttgat tttaaccagc 420
aggagatttt tgcaaaaatt tcctgggtga gagtgaatc aaactcctat tttgtttctc 480
ctctgcaagc tgtagttaag aagggattaa tggagtactt tttagaatt aaattaacct 540
cttgaaagaa gaaaaaatgg gggaagaaaa aaagtggag ggaaaagggn ttggttttgg 600
gccnaaaaaa aagttccaan tttnngcntt ggggaaaaat tcccntttt ccttggnaaa 660
aggggggnaa ggttaancct tgggaacctt tttccnncct ttnngccca aaaggggaac 720
ccanggggaa agaaccttta ggnaaggaa acccatttgg gaangggttt naaaaccntt 780
ngggcccccg ggccctctc caanaaggga aaaaaaaagg cctggaaaan gtaccagggt 840
ttcangggna aaanttaaaa ttcttgcca atancnccat aattgggaat tatggggggg 900
ccatgggctt ttggtttggg cncctaacc cgcnttttaa attcaaanna aaaaaaagng 960
gtttggaaaa nnaaanaaaa aaaattnaan ggnccnanaa aaaaacctg gaaaaccttt 1020
ggaaaaaaat tgnnngggg gccntttggt tggggggggt tnaaaaaacc ccctnggggg 1080
ttttttaagc caaaagggg gggaggggna aaanggtnc cttntttttt ttttnngccc 1140
cccttgggga atggnnttant tcanggggcc c
1171

```



<210> 742  
 <211> 739  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(739)  
 <223> n=A,T,C or G

<400> 742  
 gntgtcnaaa aagcaggctg gtaccgggtcc ggaattcgcg gccgcgtcga cggcccttgg 60  
 tgccactagt tctttcattc ttccconcca tcaatcagtg aacttttttag cctactcaaa 120  
 gctttgctcc aatgcatagg atttatgatt gtggggattt ccagataata taaatattca 180  
 acatgaatat tttaaattaa ggcatgagac atttttccta actgagcata gccatgaacc 240  
 tctcacgtct gttcctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300  
 ccaggcagtg cacaggctctt gacatgatga agtgacgtgt tgctatgggtg attttgcagc 360  
 tggccaaata gtcactgggtt gatttttacc agcaggagat ttttgcaaaa atttcctggg 420  
 tgagagtga atcaaactcc tattttgttt ctctctgca agctgnagtt aanatggatt 480  
 aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggtt 540  
 gttggcagaa gtcattgctg gaatccttct gaagggagta ctgacttcac ttgcaaagac 600  
 aagagactan aagacaatga agttaaactt ggctgtctn tcatatgata gatgcttgag 660  
 agtacaggnt cagggaaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720  
 ctttgtttgg cncctaacc 739

<210> 743  
 <211> 610  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(610)  
 <223> n=A,T,C or G

<400> 743  
 ctgtccttat ttcttttagca aaaatttccc aagagaagaa ttgctgggat aatgcacatt 60  
 taaatttttg atagacattc ccaaataatta tacctgtttt tgagaccttt aattcctggt 120  
 gtcaaattgc cctatatatg gagtaataaa cacgatttaa agaaatgagg actaaaaaaa 180  
 gattatatat aacccaacat aaaggcaacc tcttaggcgt tgacagaaac tgacaacttt 240  
 ttatctgtgg gtgcgatcca ttataagtaa cctgagcacc ttattttttc tttttaaaact 300  
 ctaggtagga taccgaggt ccacaaattt ttcataagaa atattttttc tctgccctat 360  
 gagattttta aaaatattat actgcttcaa ttgcatcaaa agaaatggac cctaataatct 420  
 atgatgaagg atttggagtt agaagacctg agtttcaatt ttggcatggc tgtttgtcta 480  
 gctctgngat cttggacagg tcaattgact tggcttaatc ttctcatcca tttagnngag 540  
 acagcaccac tattcacagg actattgnen gaattaccag acaatagcat agngngaaaat 600  
 ataangcctt 610

<210> 744  
 <211> 127  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(127)  
 <223> n=A,T,C or G

<400> 744  
 ttnacctccc tggaccgggc ccccttccc cgggcggntc ccccgggctg caggaattct 60  
 gcacgaggga gagagagttt gagagagaga gagagagaga gagagagaga gagananaga 120  
 gagagag 127

<210> 745  
 <211> 458  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(458)  
 <223> n=A,T,C or G

<400> 745  
 gatatcccgg gattcgcggc cgcgtcgacg tggcctctag tttgtcctgg tccaaagcag 60  
 ggaagctggg ctacgtcctg cccaggtcag ccttaggtta agggctgcct gggggaggga 120  
 acttcctggg ccttcgggtc tctgtgcact ggggtggctc ctgtggcca gaatgccctg 180  
 gagaagggtc ctactggaag cgaagggtgca gggcagcagg gcctgaggcg caggagctgg 240  
 tggaggctcc cagcacaggc cgcgcgccca gtcacatcac tgctgatggg ggggggactt 300  
 ggggagtttc ccccgagaat gggagggtctc acagtccccg tgctgcaatg ctgtcgggtc 360  
 actgngncng caatgtgctc atggncactt gctttttctc tgtggccccg gccgatttat 420  
 ccagcanngc acccctcttc tncctctcgg anaaagcc 458

<210> 746  
 <211> 893  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(893)  
 <223> n=A,T,C or G

<400> 746  
 aagcaggctg gtaccgggtc ggaattcgcg gccgcgtcga cgtggggagt tagctctctg 60  
 gaccccgctc tagagtaagt catcgataga gcatttgctt gatggggact tccagaaggc 120  
 canngaaagt cctgccgact tcctggggaa gcccatccgc acgtgggggtg aggggtcccca 180  
 natggaagca gctgtgtatg cagggagggg gcagaggctg ctgccaatgg gcatgtccct 240  
 tacctgaaag ggccacctct ccagggtgaca tgtcctgggg gagccggggc cgtctgctcc 300  
 ggccagaggc gctcagctca ggccacacca ggcagggcac ctcccaacct ggacagggtg 360  
 ggaccaaggt ggccttgac aaaactctct gtgtttgcc aacacccaat cggacacaga 420  
 gagtcaacca caccacagtc acatggtgtc cacacngcag gggtaagga ggcccgcccc 480  
 ctccccctca gacgtccctg ggcctctggg agtcagcaag gacgaggacg gcattgccct 540  
 togagacagg aaggaggtga cctcctccc ggcgcaccca ggctcngctt ctccggagag 600  
 gagagggggc tacttgctgg ataaanccgc cggggccaca gagaaaaagc aaggtgacca 660  
 tgagcacctt gcaaacacag tgcacccacc agcatttnag caccnnggac tgtgaagacc 720  
 tcccatttct tcggggggaa acnccgcccc ngttcccccc accntcacta gtgnattgtg 780



<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(642)

<223> n=A,T,C or G

<400> 749

```

ctntgtggcg gtggntgtct catttgggtg gacttttttg gtcgtaggaa cctgggtatgc 60
aggtccgcgg agcgtgggct ctcgtcgtgg atgttggggg ttggtgtggt gccggttgtt 120
tttggttctg ttgagcgtag tgtgtttgaa ggtagcgtt cgtgtcttgc ttgtggtttg 180
gtgtttaggg cgggtgggga ggttggttg tagctgttg atgtcatatt gttggtgttg 240
ctgccctgtg ctgtttgtcc ttggttattg tggttgttac ccgcctgtg tggaagtgtt 300
gtggcagggc gggaatttaa gtgggagagt tgtgggacct gtggttggtg ttacgttgct 360
gcttttgtcg tgggcggtgg cggcgcgtct gataattaga attggatacg gagtgtataa 420
tacttctagt aaatggggac ctagtgtttg acttcccgga atagggatct atgcgaagtc 480
cttaggatag tctttgataa gtttaacgcc caccacccta aaattataca cgattagacg 540
cataacgact cctccaggaa agataaagaa tctcacatat agaacgggac ccatacacg 600
tcggaatagga aacaagagaa ctaattttng ttaaaaagac tt 642

```

<210> 750

<211> 639

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(639)

<223> n=A,T,C or G

<400> 750

```

tttgtggcgg tgggtgtctca tttgggtgga tttttgggtc gtaggtaacc tggatatngag 60
gtatagatgc cgattgggtc cgacgagcgt caccataaat tcggtagttt cgcccttttt 120
agaaggcgct agtactcgga acttcacttc atctcggtag tttacttttg cgtatatagc 180
cttctccctc gaagactage cgtcacattc gttccctagg aatcgtttct gcccctaaga 240
atccgagagc gagatcccgga aactagagga accttagaag agtcgtattt ccacaaggac 300
cccacagtca ttccgggaaa atccctagga ccatacgggt aggattcccc cggaaccggy 360
agcaaagctc atgatttccc acaccgcgag agcgccctata accctatccc atttcttcgg 420
gttatcgagg atattacgat caagccgaga gaaccgctag aaccgctttc ttcgctttct 480
cacggaacct ataagtagaa agagaaactc aggtcttaag ggggcgcttc ggctaacgaa 540
acttctactt acgaagagag tatctagaca ttaagtcata aaaatccact acgcacctcg 600
tgtacgatat catcgggagc ggttcacaga cgggtgtccg 639

```

<210> 751

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(637)

<223> n=A,T,C or G

<400> 751

```

cttttgtggc ggnggtgtct catttgggtg gatttttggg tcgtaggnaa cctggtatng 60
aggcagctct gagccccccc ccccccccc ccccccnccc ccccccccta ggnggttggg 120
aanacggtgg atacctaaat cgagtgngtt cattaaaagt agttgattac nccctaaaat 180
aanaanaggg cttcgtcggg anaaatcggg aagganaagt ctttntggca tcataanaat 240
actggctcgg gtcctaanat nttaagng gtcnccgagg gtnttcatac cgataanaaa 300
cgttttccta tcggcaacgg gcttacctga gggnggactt ctncggngc ggngattnan 360
acgaanacgt agaggattnc cgtacttnt tganatcacn cgtatcatac ttgtaagcat 420
aattntcctg aaaagtgtta taanaatacg cncgcataatt cgttttttcg tcctagggat 480
gcttaaatgg cgatactgct atagcgggtg agcgttgggt ctcgagnaana aaagcgtgct 540
ctaatgcgtc taaggnttta agnccgttgg tttaaaaata nccttagaaa cctcgaggcg 600
gatactgggt tntttttaac gaaacaaagc accccnn 637

```

```

<210> 752
<211> 644
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(644)
<223> n=A,T,C or G

```

```

<400> 752
tntgtggcgg tgggtgctcat ttgggtggat ttttgggtcg taggaacctg gtatgaggtc 60
ttgcgagttg ttggtgtgtc ctgctgttcg gtgggtccct tttgagttga gtttgcctt 120
tgaggttgtt agctgctgtt cgtttgtgtt cgtgtagtgc tttgggttga gaggttatg 180
gtgggtggtta cgtgtatttg tcgcccggtg tcgcggggtt ggggtggctg tcggttttgt 240
ggttcatagt agtcttctgc gttcgggtgg ggcgggttgg gtgagtagtt tcgttcttgg 300
atgtcccat gacccgccat aatctaagta aggttagta gaaacctct cccgatagac 360
acaaccgtcg tccactaaag acctgcctc tgatttttaa aaggaccga aaaacatccc 420
ttcaacggaa aaaacggaaa aaaagtcagc gaattcaaag aagccacggg agagaaaaaa 480
gaactaaagt tagtccgtca ttatatgtct cctcggagga ggaagcggcg gtggcgaaa 540
atgaggcggg aagaaagacg acctctatcg gcggcttang ccctaaaagg gcgatacctt 600
acgggatgat aaggacccta ggacgcctcc ttctcggatc gtcc 644

```

```

<210> 753
<211> 635
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(635)
<223> n=A,T,C or G

```

```

<400> 753
ctttgtggcg gtggtgctca tttgggtgga ttttgggtcg gtaggaacct ggtatgaggg 60
aatcagctcg accccccccc cccccccct ccgaagcaga gccaaccca aagtccaccg 120
actaccgag taaactctcg gagggtagaa taagaaggag taggtcctag ccaatagaag 180
tagttccgag ccgttaggac agcggacgga acattnaaga aagagcctat attagggagg 240
aagtaacgtt cctctttcgg agctctttaa ggggtagtcc cagaacaagg gaagaggacc 300
cgtcggetat tgcccgtcga tacgggctct cacgngagc ctaggttcga ggatagggcc 360
gctcgtaaaa ttatacgggt tccgagaaac gcttccgtag accgggtcct aaatcgccg 420
gagtattngg agagggatcc ttcggaccct agggacagag agaggagAAC ggaggttaca 480

```

```

ggaggagaac gtntcctcnc tagtttttctt tangtcgaaa aatttcttac cgataggggtt 540
cctaggggtcg gngaattttac ggttcgaaaa acggtagtn ctaanggntg ntattngggg 600
tagtatcggg tcgtttacaa ntcgtccgtc ttntg 635

```

```

<210> 754
<211> 721
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(721)
<223> n=A,T,C or G

```

```

<400> 754
accggattng ttntctgagcg cgtgactgct aataaaaaaag atggantgcc atctttttttt 60
ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcnngggt ataaaatttg 120
gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
ctcaagggaa gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
gtttttagg ctttttttcc ccttctttcc ctctctcagc ttctccctgc ttctcagaan 300
atggagtgt gatgcctgca acttaccaa tttatctatg aatcagattc cagtgggaga 360
cccctaaagc agagggagaa taaggagttc tccccatgat ggaaaatata caaagacaag 420
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
gtgtacactt tatctgtctc ttgtcttctt cccaccctc ttctccagct ctctctctgt 540
ctctctcttg ntcccttgac ccttttttct tccantgca tacttttttn ttccctttt 600
ttaatcttct atantcttaa nctaccaan gggccctcnt gannaatttn tcaccctga 660
ataggggatt cnttangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720
a 721

```

```

<210> 755
<211> 721
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(721)
<223> n=A,T,C or G

```

```

<400> 755
accggattng ttntctgagcg cgtgactgct aataaaaaaag atggantgcc atctttttttt 60
ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcnngggt ataaaatttg 120
gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
ctcaagggaa gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
gtttttagg ctttttttcc ccttctttcc ctctctcagc ttctccctgc ttctcagaan 300
atggagtgt gatgcctgca acttaccaa tttatctatg aatcagattc cagtgggaga 360
cccctaaagc agagggagaa taaggagttc tccccatgat ggaaaatata caaagacaag 420
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
gtgtacactt tatctgtctc ttgtcttctt cccaccctc ttctccagct ctctctctgt 540
ctctctcttg ntcccttgac ccttttttct tccantgca tacttttttn ttccctttt 600
ttaatcttct atantcttaa nctaccaan gggccctcnt gannaatttn tcaccctga 660
ataggggatt cnttangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720
a 721

```

<210> 756  
 <211> 873  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(873)  
 <223> n=A,T,C or G

<400> 756  
 ggaagaatac agtaagtttg caaattaaaa tttctctatt tttctgttat ttattcattt 60  
 ggaaactgtc agcctgtctc tttaactttg ggcaagtga agcaaagacg tccagtccta 120  
 tcagcaatta ggctgaaagt caacgccaaag ctggcgggca agggctgggc tgagtagagg 180  
 ttccctaggc aggcaagaga gagactccca ctcgatactc ccagctcggc aactgcctga 240  
 atgccaatga gcactcatta taacccgccc tattttatag gatttaattt tacacttcag 300  
 gcttaatcag tctgaaagtt aaactgacag tgtaagttta cggaatcaat gacatttagg 360  
 ctttatgact ttgtagctga atatctatgg gctatatctc cattctaaca gtgatatact 420  
 gttccagaat ctcatctctt ggtgatggca ctttctagtg gagcagtcac ggtaacagtc 480  
 cacacccatt accatgtggg tgctttacag catactgacg gaaggactga ggagccaccg 540  
 gagcaggagt tcctctcagg gaggacgctg acacttccac agctgcctan gtatgggcac 600  
 ctgatgccaa cgaanaaccc aaagcgctct cccttccaga tgggaagctgc cccacactgg 660  
 gctgacagca tctggagctg ctctggctca aatcccgaa tcgcacanct cctanccggg 720  
 gcgtttanag atcctcnggg ccagctaccg accacttttg acaagggnc ttaggagcga 780  
 aactagnctg gcgcgttaca cncggatgga acgtcttgga cttgagacct cttgggggan 840  
 atggcncccc caaataantt gggaaaantn ggg 873

<210> 757  
 <211> 782  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(782)  
 <223> n=A,T,C or G

<400> 757  
 ggccctcga gggatactct agagcgggcg ccgactagt agctcgtcga cgatatcccg 60  
 ggatttgaga ccaggagaca gctccagatg ctgtcagccc agtgctgggg gcaggcttcc 120  
 atctgtgaag tggagaggcg ctttgggctt ctctgttggc atcagggtgcc catacctagg 180  
 gcagctgtgg aagtgtcagc gtctctcctg agaggaactc ctgctccggg ggctcctcag 240  
 tccttccgtc agtatgctgt aaagcaccca catggtaatg ggtgnggact ggtaccatga 300  
 ctgntccctt aaaaggtggc cttcccnaag aaaggagaaat tcttggacna gggatttcac 360  
 ttgnttagaa atgggaaaaa ttaccattta gaattttcgn ttccaaggcn tnaagnccca 420  
 aaaggccttt gattcccga ccttaaccct gggcagttta cctttcaaac gggataaacc 480  
 ctgangggga aaatnaaatc ctttaaaaaa gggggggttt naaggagggc tctttggctt 540  
 tcaggcantt gccaacctgg gaaattcana ggggaagtnt ttttttttgc ctgcctaggg 600  
 aacctttact taaacnaacc cttgncccc catttggggg tgactttcan cctaattgct 660  
 gaaaggaccg ggccgntttt gntttccttt gncccaaagg naaanaaacg ggtgccantt 720  
 cccangggat tanttccga aaatttggnn aatttttntt tgnaactttt tgggtttttt 780  
 cc 782

<210> 758

<211> 647  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(647)  
 <223> n=A,T,C or G

<400> 758  
 ntttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60  
 gggaagagcg ccgtcgggcc gagtacagta tggagtagta tagtcttcgc gccttctcgg 120  
 gcggcggggc tattctctcc aaaggcagag gtccctagtc gacctcgctc ccctaggtta 180  
 ggaacagccg tcgaatattt taggttcgctc gaggctttct tccgagctct acgcctaagt 240  
 agctccgcga gcaaagtatc ggtcattttc cccatcccat cactccccta agtacgcctc 300  
 attattccgg aaggcaagag gccagcattc ctcccttagag tagagggtag gtacctccgt 360  
 cgcgtgccgc gaaagggcag agcttcgtgt ctccctcccg cagcagctta acggtctacg 420  
 taggcgttct cgatcttttc acgggaatcg gggtcgggga gggcggcgga aaacgtcgac 480  
 gtctcggta ccgtcacgcg cccgaacaac tagcggcttt ccgctttcaa ctgaggaacc 540  
 ccgcacccct cattagcgct tacgaaatcg gggangtgat tgcgccaatt cgttagcctt 600  
 cgataattat tctctattag cggtcctatc tcgcgcttcc gatttat 647

<210> 759  
 <211> 657  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(657)  
 <223> n=A,T,C or G

<400> 759  
 ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60  
 gggctctata gaaagcctct tgtctttaga tacgggcttt ctggctcttc gttctggaag 120  
 tgtagtagta ggtactgcgg gaaggcgaag agtcctttca aggacgattt acttaagttg 180  
 gcttattcta tagttccttc gggacataag gtccgtacga tctatactgc gtgggaagct 240  
 gataggttgg gacttaagggc gaataagaag gaggcggcgg aggtcgcgat taccgcagag 300  
 atattattta cggcgccgcg gggtaaccgc ggtcatgcgg aaattttctg aggttcttgg 360  
 attcctaaga tcgctcccgt cgagtatact agcgacgaac gtaagagtgc cctcacaaga 420  
 accggtacaa actcaagaag aagttcccat taagcatcgt aagaaacggg aggacgagga 480  
 cggtaagaag taatcggaga aaggatccta gtngttacga agaagcatcg ttnagctact 540  
 ttgcgctacc gtttatattt agacgtgttc cgtccttctc cgtgtttana aaaaagggtt 600  
 attccgacgg gagacttagg cgaatggagg gttccgcggg tganaatcgg ancgggg 657

<210> 760  
 <211> 644  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(644)  
 <223> n=A,T,C or G



```

<400> 760
ctttgtggcg gtggtgtctc atttgggtgg acttttttggg tcgtaggaac ctggtatgna 60
ggaaaagaag taagcctcga agcctatctc cgaccgtatt tatttcgcag aagacggaac 120
tacggacgtc gttaaccccg agtagccccc gtaagaaagg actaaagcga atggaaaagt 180
cgggaattcc ggcgaggagg cggcgattac tgaaaggagt aagagtaaga ctattgcgat 240
acttgaggcg ttccctctta aaaggcaccc gaaacactct attaaaaaac acccgaagaa 300
gaacaactca tgcgatcggc cgtgtgcagc cgtcaatagt aaagagagcc atgaaccatg 360
ccatccttag accaattagg atgaagaaga ggaggaagat gaggaccaa ccctaccac 420
tcggaaaacc ccgcacgagc ctccgaacaa aatccgggaa ttaaaacggc ggcccacttc 480
cgactctcg tagcgcgac cgaatagaaa accggaaact acagctaaag ggtcctttcc 540
ggcctgttat ctaccaccc gcaatccgat cctccccccc cctcgtccaa aaaccctaac 600
ctctgcggca acattagagc agaaggagag ggcgatccct tgan 644

```

```

<210> 761
<211> 647
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(647)
<223> n=A,T,C or G

```

```

<400> 761
ctttgtggcg gtggtgtctc atttgggtgg acttttttggg tcgtaggaac ctggtatnga 60
ggcgggtact ctctgggata atcggtataa gtgttgtaaa attgggggta agagaaagt 120
tcattataag aagtggaaag acgagccggg gtgttttagtc gttaatatta agaccggttt 180
ttgttgtagt tatatagctt gcgcgtgggg aggcaataag aaacattgcg tttcgaggcc 240
ggatgcgggg aaccctcttc ggggtctaga gcgcgcgcat tgcaaaaataa ggactactga 300
cgccgctcat aacgtactca acaatgagtc ggcctgcatt aagatttcgg cgaagaaccg 360
tactgcgtct actgatagta tattgcattg atagcggcat gagctttatc acgtgtcgtt 420
ttcgggttgt aagaaggag ttaagtcgat cttcgaggaa gaagagaccc caaataaaaa 480
atgactcaaa aaaacctaga agaaacacga cgaaaggaaa aagaacgtta aaactagtag 540
ctcttcggan gagtagcctt agtagggtaa gtctccgtg cgtactgtcc taagggttgg 600
atagcgcggt tgaatagacg gtcacgcgtc agaaggtaaa aanccgg 647

```

```

<210> 762
<211> 628
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(628)
<223> n=A,T,C or G

```

```

<400> 762
cattgtgttg gggtcactga gccactttt ttccagattt tttgtaaaat tgtttcgc 60
tgtgttcctt ttattcgctt gtattaatat ttgcgtagtg gattaaaca atacttgggt 120
ttgactgtca gtcttagagg actgactaga agtagttttc atttggggct caggaaatac 180
ctactttata tttctagcta attaggaaag tcatttttca gttagggttg tgttttggtt 240
caggcactcg ctagctagat gacctaacat gctacttaat ttctgagtgt ttgtgtccat 300
ccctgtagga ttgttgcggg gttaaatgaa attgtgtata tttgtaaagc atttacctca 360

```

```
<210> 763
<211> 147
<212> DNA
<213> Homo sapiens
```

```
<400> 763
cattgtgttg gggcagagat aaataattcc tctgaaaagt gttttattgg aatttcaaat 60
gaaaagctaa ctggataact tacagcatgt ttctgccaat aatctcttan aacaggcctc 120
ttttttttat gcacaccacc ttctgggc                                     147
```

```
<220>  
<221> misc_feature  
<222> (1)...(146)  
<223> n=A,T,C or G
```

```
<210> 765
<211> 129
<212> DNA
<213> Homo sapiens
```

```
<400> 765
tncncgattc gntnctagcg tntacactna tgtcttggta ccgagctcgg atccactagt 60
ccagtgtggg nggaattcca ttgtgttggg gcaggaggng ctttgngtac ngtgcgggctg 120
nagaggcgg                                     129
```

<210>	766
<211>	175
<212>	DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(175)

<223> n=A,T,C or G

<400> 766

```
cattgtgttg ggcctagtcc gaatactttt agtaacttca gacagatoto ctcattcttt 60
tctggggctt ggnttttctc ctttgtanaa tgatgccttt ctgtgggttt gtcattttcta 120
acattctgtg ngtgatgagg tgtatatctg angantctca tcnccanagt actct 175
```

<210> 767

<211> 602

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(602)

<223> n=A,T,C or G

<400> 767

```
nnntttaaaa nctgtntctc ccgcgggtggc ggccgctcta gaactagtgg atcctttcca 60
cctggtttgt tttcagtgtt taatcctatt agtatcagca ggatataggt caggatatca 120
ggtgcagaac ctgtggaatc agccaatttg gcttgctcat ttactttaat aagggtcccat 180
aatgagtgag agtacaaaagt tcaagccctg ttgagggctc gcattaaact ctcagaagta 240
tttagagtgt gccaggagcc gcgaaggctc ggttcgggtg gtggcgggaa ctgtattaga 300
gtgctaggca cggcgcgaca aagtctgtcc aacccaaaac ggtgctgagg cggtgggtgt 360
gagctccagt actcagaaaa gcattctcagc aggtactcaa cagatcctca ggggcttggg 420
ggcccagcac tggcagtgag ggcatgaaag acataaaaagg gcactacctg tgggtatttt 480
ctgtttctcca aggaggaagt agcaaaaatt aggacgctgg aatatcctat gttgtagcaa 540
tcccagaaca actgatgctc aacaaatacc acacaaaaca aattttttta aatttaattct 600
ta 602
```

<210> 768

<211> 671

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(671)

<223> n=A,T,C or G

<400> 768

```
tccaccgcgg tggcggccgc tctagactag tggatccact agtccagtgt ggggtgggaat 60
tcgcggcncg cgtcgacaaa aatactgcta aagtaatatt tttatagatg actatttgcc 120
ttggggccag gaaaagcagc tggagttatt cacttagtac catttttaca tactaaactt 180
gccttttcca tgcttgcttg atgcggcttg cagcactgaa gaacagtttc aattgctagc 240
caaccagaga gcatgatcaa accaaacaag ttccctgttt caggaaaaaac aggttttagg 300
taactgaagg gttaccagtt actgattcca caatcttctc tgtaaaanat ttctgcctat 360
tatgcagact gggcggcttt aaanntggta aaactatnaa ataccatac aatattttta 420
nggggccccn ttatnaagct tttcaggcct tcccctttcc atagcattgg tgggatacaa 480
```

```

gaaaccttta aacagcaacn agctatcnag gcccaaaagg aaagtaattn tgatttttta 540
nagattccgn aacgaaaaaa tggctgggtt caaatcnac cttcttttta aaatggnttc 600
cttattaaac nttttttttt tttaatttta ccccatgggc ntgatnttng ngcttccgcc 660
canaaaatng n 671

```

```

<210> 769
<211> 877
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(877)
<223> n=A,T,C or G

```

```

<400> 769
aaagctggag ctccccgcgg tggcggcgcg tctagaacta gtggatccac tagtccanng 60
ngggggaatt cgcggccgcg tcgacctcta tacctttgnt catgcagctt cctctgactg 120
ggtttgttct tcacttggct aacctctctt ttacttaage acaccttgaa cattccctcc 180
ttccccattt ccccgagng cccctaattg acatacttct gaataacaca ggtgggtattc 240
cttccttgtt ggaacctctt ggaggaagag acagatgatt aacaaatcct tccatcaacc 300
cctttgacca tgacatcaac agtgctccaa attatggggt accgtattag cctatgtcta 360
tcttgatcag aatccttacc tcggtgtatt gaaattatct atttcgtgcc tgcctcttta 420
aagtcagggt ttgccttata tattgtctaa caccatgcag taggtaacat gcagtaggaa 480
acatggcatt aaattatttg ggttcaaate ccagttatgg tgtgtaaatt cctaccaggc 540
cgtgaggcac ctgctaagca ggttgcaagc atcatttgaa ttcacaccac ccttttgcaa 600
tagaacagat aggcaacaga ggctcatttg ggctaaagga tttgatggag gggaagtgcc 660
aggattccca ccaaggcctc anggccaggg tccanggacc atgtctgttg tgacaactgg 720
agtgcatttc atatccctn ctctgngggg naaggteect cncgnggaga acnnttaaaa 780
caatcatntc tngggggntt aatgcttctt nccccagtgt ggtncactgc ngccacgagt 840
cccancact agtcccangt ctgtcatgaa ccancce 877

```

```

<210> 770
<211> 874
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(874)
<223> n=A,T,C or G

```

```

<400> 770
ctggnctccc cgcggtggcg gccgctctag aactagtga tccactagtc cagtgtggtg 60
gaattcgcg cgcgctcgac cttttcaaag gttaacttat ttaattatca cannngcaac 120
ccgatgagta ggtaacagta ttttactgat aggtaatcta aagaaggagg ctaaataaac 180
tgcccaattt cgaacagtga gaggaagaat taggattgaa acacatatag tggcttcaga 240
atctgtaacc ctacgatgc cactactact tctttcagaa taccctttgc ctatctattc 300
tgttcctatg tcatcaaatt ataactactt taaaaagtat ttgtctttat tattttttaa 360
aaaacacagg gaagtatttc tgatcagggg cagtatttgt tctgaaagac aagccagtgt 420
ttttgagggt ttctcccttg ccagtttttc tatgctgggt tattcaagtc ctaagaattg 480
tgtagctatt acagaaccgc tttagcaaat gtgttccatt aatcaagggt atttataaca 540
aaatttcate caagtgttga gtgctctgaa aacatagcca aaatgttcgc aggggtctacc 600
cctctcgtgt gtcccttttt tttagctatt tcagaagcac actggtgcaa tattttacga 660

```

```
<210> 771
<211> 156
<212> DNA
<213> Homo sapiens
```

```
<400> 771
ttaaaaaanct ggncctccccc cggtggcggc cgctctagaa ctagtggatc cactagtcca 60
gtgtggtgga attcgcggcc gcgtcgaccg cgagcggtcg cccctttttt ttttttttn 120
ngtttttttg aanaattcat tgggtattta ttattc 156
```

```
<210> 772
<211> 586
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1)...(586)  
<223> n=A,T,C or G
```

<400>	772					
ncaanctggn	ctccaccgcg	gtggcgggcg	ctctagacta	gtggatccac	tagtccagtg	60
tgggtggaatt	cgcgggccgcg	tcgatcacia	agtgtctaca	agtcnngnat	ttattttatc	120
tccagatatg	aaacttaccc	ccagctatgg	tcttctattt	gttattttaat	ttctaggcca	180
attttttcca	cttgaatgtc	agtattttta	ttcaaagtca	ccttgtccaa	ataccaagtc	240
atcaacttac	cctcaaatta	tatcctcatt	cagaaaatct	acatctatta	atggtagcta	300
ttttattccct	gccccctgct	ttttcttttt	atattttaatt	aatttgntca	tccagcaaat	360
gcttattgag	caggattgtg	aggctaaca	attctanact	ttaaggggac	acagnttgca	420
aaacaaaatc	ctgccttnga	tggatactta	tgnnatggng	ggatacacag	aatcaacata	480
atgangngca	tcatatataa	tggttagnan	aatgatacag	gnttttggga	aaaaaatgca	540
cccanccaan	anggattggg	aagtggangg	ganggtcang	gqangq		586

```
<210> 773
<211> 2983
<212> DNA
<213> Homo sapiens
```

<400> 773						
agagatagag	tcttccttg	cattgcagga	gagaatctga	agggatgatg	gatgcatcaa	60
aagagctgca	agttctccac	attgactttc	tgaatcagga	caacgccgtt	tctcaccaca	120
catgggagtt	ccaaacagagc	agtctctgtg	tccgcgcgag	acaggtgttt	cacctgcggc	180
tggtctgtaa	ccagccctca	caatctctac	accaactgaa	actggaattc	agcacagggc	240
cgaatcctag	catgcgcaaaa	cacacccctg	tggtgtctga	cccgaaggac	ccctcagacc	300

```

actacaactg gcaggcaacc cttcaaaatg agtctggcaa agaggtcaca gtggctgtca 360
ccagttcccc caatgccatc ctgggcaagt accaactaaa cgtgaaaact ggaaaccaca 420
tccttaagtc tgaagaaaac atcctatacc ttctcttcaa cccatggtgt aaagaggaca 480
tggttttcat gcctgatgag gacgagcgca aagagtacat cctcaatgac acgggctgcc 540
attacgtggg ggctgccaga agtatcaaat gcaaaccctg gaactttggt cagtttgaga 600
aaaatgtcct ggactgctgc atttccctgc tgactgagag ctccctcaag cccacagata 660
ggaggggacc cgtgctggtg tgcagggcca tgtgtgctat gatgagcttt gagaaaggcc 720
agggcggtgt cattgggaat tggactggg actatgaagg tggcacagcc ccatacaagt 780
ggacaggcag tgccccgac ctgcagcagt actacaacac gaagcaggct gtgtgctttg 840
gccagtgtgt ggtgtttgtt gggatcctga ctacagtgtt gagagcgttg ggcatcccag 900
cacgcagtgt gacaggcttc gattcagctc acgacacaga aaggaacctc acggtggaca 960
cctatgtgaa tgagaatggc aagaaaatca ccagtatgac ccacgactct gtctggaatt 1020
tccatgtgtg gacggatgcc tggatgaagc gaccggatct gcccaagggc tacgacggct 1080
ggcaggctgt ggcgcgaacg ccgcaggagc gaagccaggg tgtcttctgc tgtgggccat 1140
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&lt;211&gt; 3064

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 774

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&lt;211&gt; 684

&lt;212&gt; PRT

<400> 775

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 <213> Homo sapiens

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Leu	Tyr	Ile	Leu	Asp	Asn	Asn	His	Thr	His	Leu	Leu	Leu	Val	Asp	Asn	
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Lys	Ile	Pro	Ile	Val	Cys	Phe	Ala	Gln	Gly	Gly	Gly	Lys	Glu	Thr	Leu	

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Glu	Gly	Ser	Gly	Arg 325	Ile	Ala	Asp	Val	Ile 330	Ala	Ser	Leu	Val	Glu	Val 335
Glu	Asp	Ala	Pro 340	Thr	Ser	Ser	Ala	Val 345	Lys	Glu	Lys	Leu	Val 350	Arg	Phe 355
Leu	Pro	Arg 355	Thr	Val	Ser	Arg	Leu 360	Ser	Glu	Glu	Glu	Thr 365	Glu	Ser	Trp 370
Ile 370	Lys	Trp	Leu	Lys	Glu	Ile 375	Leu	Glu	Cys	Ser	His 380	Leu	Leu	Thr	Val 385
Ile 385	Lys	Met	Glu	Glu	Ala 390	Gly	Asp	Glu	Ile	Val 395	Ser	Asn	Ala	Ile	Ser 400
Tyr	Ala	Leu	Tyr	Lys 405	Ala	Phe	Ser	Thr	Ser 410	Glu	Gln	Asp	Lys 415	Asp	Asn 420
Trp	Asn	Gly	Gln 420	Leu	Lys	Leu	Leu	Leu 425	Glu	Trp	Asn	Gln	Leu 430	Asp	Leu 435
Ala	Asn	Asp 435	Glu	Ile	Phe	Thr	Asn 440	Asp	Arg	Arg	Trp	Glu 445	Ser	Ala	Asp 450
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Leu	Gln	Asn	Lys	Lys 565	Glu	Leu	Ser	Lys	Val 570	Ile	Trp	Glu	Gln	Thr	Arg 575
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Tyr Ser Gly Arg Val Ile Phe Cys Leu Asp Tyr	Ile Ile Phe Thr Leu	
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Trp Ile Thr Ile Pro Leu Val Cys Ile Tyr Met Leu Ser Thr Asn Ile
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Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His
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Gly Cys His Gly His Pro Thr Val Glu Ala Lys Leu Arg Asn Gln Leu		
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Glu Asp Arg Asn Gly Arg Asp Glu Met Asp Ile Glu Leu His Asp Val	530		535		540
Ser Pro Ile Thr Arg His Pro Leu Gln Ala Leu Phe Ile Trp Ala Ile	545		550		555
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Leu Gln Asn Lys Lys Glu Leu Ser Lys Val Ile Trp Glu Gln Thr Arg		565		570	575
Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu		580		585	590
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Ala Asn Glu Tyr Glu Thr Arg Ala Val Glu Leu Phe Thr Glu Cys Tyr		610		615	620
Ser Ser Asp Glu Asp Leu Ala Glu Gln Leu Leu Val Tyr Ser Cys Glu		625		630	635
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Gln His Phe Ile Ala Gln Pro Gly Val Gln Asn Phe Leu Ser Lys Gln		660		665	670
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Cys Leu Phe Ile Ile Pro Leu Val Gly Cys Gly Phe Val Ser Phe Arg		690		695	700
Lys Lys Pro Val Asp Lys His Lys Lys Leu Leu Trp Tyr Tyr Val Ala		705		710	715
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Phe Phe Thr Ser Pro Phe Val Val Phe Ser Trp Asn Val Val Phe Tyr		725		730	735
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Ser Val Pro His Pro Pro Glu Leu Val Leu Tyr Ser Leu Val Phe Val		755		760	765
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770		775		780
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Ile Ala Gly Ile Val Phe Arg Leu His Ser Ser Asn Lys Ser Ser Leu				
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Tyr Ser Gly Arg Val Ile Phe Cys Leu Asp Tyr Ile Ile Phe Thr Leu				
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Arg Leu Ile His Ile Phe Thr Val Ser Arg Asn Leu Gly Pro Lys Ile				
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				895
Glu Pro Tyr Leu Ala Met Phe Gly Gln Val Pro Ser Asp Val Asp Gly				
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Thr Thr Tyr Asp Phe Ala His Cys Thr Phe Thr Gly Asn Glu Ser Lys				
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<210> 797  
 <211> 45  
 <212> DNA  
 <213> Homo sapiens

<400> 797  
 aacgacctca tgctcatcaa gttggaacgaa tccgtgtccg agtct 45

<210> 798  
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 <212> DNA  
 <213> Homo sapiens

<400> 798  
 agacccttgc tcgctaacga cctcatgctc atcaagttgg acgaa 45

<210> 799  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 799

Glu Pro Gly Ser Gln Met Val Glu Ala Ser Leu Ser Val Arg His  
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<210> 800  
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 <212> PRT  
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<400> 800  
 Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala Ser Leu  
                   5                  10                  15

<210> 801  
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 <212> PRT  
 <213> Homo sapiens

<400> 801  
 Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met  
                   5                  10                  15

<210> 802  
 <211> 15  
 <212> PRT  
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<400> 802  
 Tyr Thr Ile Gly Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu  
                   5                  10                  15

<210> 803  
 <211> 14  
 <212> PRT  
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<400> 803  
 Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu  
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<210> 804  
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 <212> PRT  
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<400> 804  
 Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu  
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<210> 805  
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 <212> PRT  
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<400> 805  
 His Pro Gln Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser  
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<210> 806  
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 <212> PRT  
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 Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Ala His  
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<210> 809  
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 <212> PRT  
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 Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu Phe Cys  
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Ser

<210> 810

<211> 15  
 <212> PRT  
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<400> 810  
 Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu  
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<210> 811  
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 <212> PRT  
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<400> 811  
 Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser  
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<210> 812  
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 <212> PRT  
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<400> 812  
 Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser  
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<210> 813  
 <211> 15  
 <212> PRT  
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<400> 813  
 Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser  
                   5                  10                  15

<210> 814  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 814  
 Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu  
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<210> 815  
 <211> 35  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> PCR primer

<400> 815

ggaccagcat atgaggaaca gaaggaatga cactc

35

<210> 816

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 816

ccgctcgagt ccacccaag cttcacagg

29

<210> 817

<211> 1959

<212> DNA

<213> Homo sapiens

<400> 817

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aagaaacgag	aatgtgtctt	ctttaccaa	gattccaagg	ccacggagaa	tgtgtgcaag	180
tgtggctatg	cccagagcca	gcacatggaa	ggcaccaga	tcaaccaaag	tgagaaatgg	240
aactacaaga	aacacaccaa	ggaatttcct	accgacgct	ttggggatat	tcagtttgag	300
acactgggga	agaaaggga	gtatatacgt	ctgtcctgcg	acacggacgc	ggaaatcctt	360
tacgagctgc	tgaccagca	ctggcacctg	aaaacaccca	acctggtcac	ttctgtgacc	420
gggggcgcca	agaacttcgc	cctgaagccg	cgcacgcgca	agatcttcag	ccggctcacc	480
tacatcgcgc	agtccaaagg	tgtcttgatt	ctcacgggag	gcacccatta	tggcctgatg	540
aagtacatcg	gggaggtggt	gagagataac	accatcagca	ggagttcaga	ggagaatatt	600
gtggccattg	gcatagcagc	ttggggcatg	gtctccaacc	gggacaccct	catcaggaat	660
tgcgatgctg	agggctatct	tttagccag	taccttatgg	atgacttcac	aagagatcca	720
ctgtatatcc	tggacaacaa	ccacacacat	ttgtctctcg	tggacaatgg	ctgtcatgga	780
catcccactg	tcgaagcaaa	gctccggaat	cagctagaga	agtatatctc	tgagcgcaact	840
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aaagagactt	tgaaagccat	caatacctcc	atcaaaaata	aaattccttg	tgtggtggtg	960
gaaggctcgg	gccagatcgc	tgatgtgatc	gctagcctgg	tggaggtgga	ggatgccctg	1020
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cctgaggagg	agactgagag	ttggatcaaa	tggctcaaag	aaattctcga	atgttctcac	1140
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tacgctctat	acaaagcctt	cagcaccagt	gagcaagaca	aggataactg	gaatgggcag	1260
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gaccgccgat	gggagtctgc	tgaccttcaa	gaagtcattg	ttacggctct	cataaaggac	1380
agacccaagt	ttgtccgcct	ctttctggag	aatggcttga	acctacggaa	gtttctcacc	1440
catgatgtcc	tcactgaact	cttctccaac	cacttcagca	cgtttgtgta	ccggaatctg	1500
cagatcgcca	agaattccta	taatgatgcc	ctcttcacgt	ttgtctggaa	actggttgcg	1560
aacttcgaa	gaggcttcgg	gaaggaagac	agaaatggcc	gggacgagat	ggacatagaa	1620
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cttcagaata	agaaggaact	ctccaaagtc	atgtgggagc	agaccagggg	ctgcactctg	1740
gcagccctgg	gagccagcaa	gcttctgaag	actctggcca	aagtgaagaa	cgacatcaat	1800

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<210> 818
<211> 652
<212> PRT
<213> Homo sapiens
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Met Arg Asn Arg Arg Asn Asp Thr Leu Asp Ser Thr Arg Thr Leu Tyr  
5 10 15

Val Asn Phe Ile Gln Ala Asn Phe Lys Lys Arg Glu Cys Val Phe Phe  
35 40 45

Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp  
65 70 75 80

Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser  
100 105 110

His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys  
130 135 140

Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His  
165 170 175

Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp  
195 200 205

Gly Tyr Phe Leu Ala Gln Tyr Leu Met Asp Asp Phe Thr Arg Asp Pro  
225 230 235 240

Leu Tyr Ile Leu Asp Asn Asn His Thr His Leu Leu Leu Val Asp Asn  
 245 250 255  
 Gly Cys His Gly His Pro Thr Val Glu Ala Lys Leu Arg Asn Gln Leu  
 260 265 270  
 Glu Lys Tyr Ile Ser Glu Arg Thr Ile Gln Asp Ser Asn Tyr Gly Gly  
 275 280 285  
 Lys Ile Pro Ile Val Cys Phe Ala Gln Gly Gly Gly Lys Glu Thr Leu  
 290 295 300  
 Lys Ala Ile Asn Thr Ser Ile Lys Asn Lys Ile Pro Cys Val Val Val  
 305 310 315 320  
 Glu Gly Ser Gly Gln Ile Ala Asp Val Ile Ala Ser Leu Val Glu Val  
 325 330 335  
 Glu Asp Ala Leu Thr Ser Ser Ala Val Lys Glu Lys Leu Val Arg Phe  
 340 345 350  
 Leu Pro Arg Thr Val Ser Arg Leu Pro Glu Glu Glu Thr Glu Ser Trp  
 355 360 365  
 Ile Lys Trp Leu Lys Glu Ile Leu Glu Cys Ser His Leu Leu Thr Val  
 370 375 380  
 Ile Lys Met Glu Glu Ala Gly Asp Glu Ile Val Ser Asn Ala Ile Ser  
 385 390 395 400  
 Tyr Ala Leu Tyr Lys Ala Phe Ser Thr Ser Glu Gln Asp Lys Asp Asn  
 405 410 415  
 Trp Asn Gly Gln Leu Lys Leu Leu Leu Glu Trp Asn Gln Leu Asp Leu  
 420 425 430  
 Ala Asn Asp Glu Ile Phe Thr Asn Asp Arg Arg Trp Glu Ser Ala Asp  
 435 440 445  
 Leu Gln Glu Val Met Phe Thr Ala Leu Ile Lys Asp Arg Pro Lys Phe  
 450 455 460  
 Val Arg Leu Phe Leu Glu Asn Gly Leu Asn Leu Arg Lys Phe Leu Thr  
 465 470 475 480  
 His Asp Val Leu Thr Glu Leu Phe Ser Asn His Phe Ser Thr Leu Val  
 485 490 495  
 Tyr Arg Asn Leu Gln Ile Ala Lys Asn Ser Tyr Asn Asp Ala Leu Leu  
 500 505 510  
 Thr Phe Val Trp Lys Leu Val Ala Asn Phe Arg Arg Gly Phe Arg Lys  
 515 520 525



Glu Asp Arg Asn Gly Arg Asp Glu Met Asp Ile Glu Leu His Asp Val  
530 535 540

Ser Pro Ile Thr Arg His Pro Leu Gln Ala Leu Phe Ile Trp Ala Ile  
545 550 555 560

Leu Gln Asn Lys Lys Glu Leu Ser Lys Val Ile Trp Glu Gln Thr Arg  
565 570 575

Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu  
580 585 590

Ala Lys Val Lys Asn Asp Ile Asn Ala Ala Gly Glu Ser Glu Glu Leu  
595 600 605

Ala Asn Glu Tyr Glu Thr Arg Ala Val Glu Leu Phe Thr Glu Cys Tyr  
610 615 620

Ser Ser Asp Glu Asp Leu Ala Glu Gln Leu Leu Val Tyr Ser Cys Glu  
625 630 635 640

Ala Trp Gly Gly Leu Glu His His His His His His  
645 650

<210> 819

<211> 132

<212> PRT

<213> Homo sapien

<400> 819

Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe  
1 5 10 15  
Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser  
20 25 30  
Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly  
35 40 45  
Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val  
50 55 60  
Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val  
65 70 75 80  
Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala  
85 90 95  
Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp  
100 105 110  
Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu  
115 120 125  
Gly Pro Pro Ala  
130

<210> 820  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 820  
 ggggaattca tgatccggga gaaatttgcc cactgc 36

<210> 821  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 821  
 gggctcgagt caggagtttg agaccagcct ggc 33

<210> 822  
 <211> 675  
 <212> DNA  
 <213> Homo sapiens

<400> 822  
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 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120  
 accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180  
 ggcgacagag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240  
 ggcgacgtga tcaccgcggt cgacggcgct cggatcaact cggccaccgc gatggcggac 300  
 gcgcttaacg ggcatcatcc cggtgacgtc atctcgggtga cctggcaaac caagtcgggc 360  
 ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt catgatccgg 420  
 gagaaatttg cccactgcac cgtgctaacc attgcacaca gattgaacac cattattgac 480  
 agcgacaaga taatggtttt agattcagga agactgaaag aatatgatga gccgtatgtt 540  
 ttgctgcaaa ataaagagag cctattttac aagatgggtgc aacaactggg caaggcagaa 600  
 gccgctgccc tcaactgaaac agcaaaacag agatgggggt tcaccatgtt ggccaggctg 660  
 gtctcaaact cctga 675

<210> 823  
 <211> 291  
 <212> DNA  
 <213> Homo sapiens

<400> 823  
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 accattattg acagcgacaa gataatgggt ttagattcag gaagactgaa agaatatgat 120  
 gagccgtatg ttttgctgca aaataaagag agcctatattt acaagatggt gcaacaactg 180



Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr  
 115 120 125  
 Leu Ala Glu Gly Pro Pro Ala Glu Phe Met Ile Arg Glu Lys Phe Ala  
 130 135 140  
 His Cys Thr Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp  
 145 150 155 160  
 Ser Asp Lys Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp  
 165 170 175  
 Glu Pro Tyr Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met  
 180 185 190  
 Val Gln Gln Leu Gly Lys Ala Glu Ala Ala Ala Leu Thr Glu Thr Ala  
 195 200 205  
 Lys Gln Arg Trp Gly Phe Thr Met Leu Ala Arg Leu Val Ser Asn Ser  
 210 215 220  
 <210> 826  
 <211> 357  
 <212> PRT  
 <213> Homo sapiens  
 <400> 826  
 Met Ser Ala Ile Glu Arg Val Ser Glu Ala Ile Val Ser Ile Arg Arg  
 5 10 15  
 Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile Ser Gln Arg Asn Arg Gln  
 20 25 30  
 Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr Ala  
 35 40 45  
 Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr Leu Gln Gly Leu Ser Phe  
 50 55 60  
 Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly Ala  
 65 70 75 80  
 Gly Lys Ser Ser Leu Leu Ser Ala Val Leu Gly Glu Leu Ala Pro Ser  
 85 90 95  
 His Gly Leu Val Ser Val His Gly Arg Ile Ala Tyr Val Ser Gln Gln  
 100 105 110  
 Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly Lys

115						120						125					
Lys	Tyr	Glu	Lys	Glu	Arg	Tyr	Glu	Lys	Val	Ile	Lys	Ala	Cys	Ala	Leu		
130						135					140						
Lys	Lys	Asp	Leu	Gln	Leu	Leu	Glu	Asp	Gly	Asp	Leu	Thr	Val	Ile	Gly		
145					150					155					160		
Asp	Arg	Gly	Thr	Thr	Leu	Ser	Gly	Gly	Gln	Lys	Ala	Arg	Val	Asn	Leu		
				165					170					175			
Ala	Arg	Ala	Val	Tyr	Gln	Asp	Ala	Asp	Ile	Tyr	Leu	Leu	Asp	Asp	Pro		
			180					185					190				
Leu	Ser	Ala	Val	Asp	Ala	Glu	Val	Ser	Arg	His	Leu	Phe	Glu	Leu	Cys		
		195					200					205					
Ile	Cys	Gln	Ile	Leu	His	Glu	Lys	Ile	Thr	Ile	Leu	Val	Thr	His	Gln		
210						215					220						
Leu	Gln	Tyr	Leu	Lys	Ala	Ala	Ser	Gln	Ile	Leu	Ile	Leu	Lys	Asp	Gly		
225					230					235					240		
Lys	Met	Val	Gln	Lys	Gly	Thr	Tyr	Thr	Glu	Phe	Leu	Lys	Ser	Gly	Ile		
			245						250					255			
Asp	Phe	Gly	Ser	Leu	Leu	Lys	Lys	Asp	Asn	Glu	Glu	Ser	Glu	Gln	Pro		
			260					265					270				
Pro	Val	Pro	Gly	Thr	Pro	Thr	Leu	Arg	Asn	Arg	Thr	Phe	Ser	Glu	Ser		
		275					280					285					
Ser	Val	Trp	Ser	Gln	Gln	Ser	Ser	Arg	Pro	Ser	Leu	Lys	Asp	Gly	Ala		
290					295						300						
Leu	Glu	Ser	Gln	Asp	Thr	Glu	Asn	Val	Pro	Val	Thr	Leu	Ser	Glu	Glu		
305					310					315					320		
Asn	Arg	Ser	Glu	Gly	Lys	Val	Gly	Phe	Gln	Ala	Tyr	Lys	Asn	Tyr	Phe		
			325					330					335				
Arg	Ala	Gly	Ala	His	Trp	Ile	Val	Phe	Ile	Phe	Leu	Ile	Leu	Glu	His		
			340				345					350					
His	His	His	His	His													
		355															

&lt;210&gt; 827

&lt;211&gt; 96

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 827

Met Gly Ile Arg Glu Lys Phe Ala His Cys Thr Val Leu Thr Ile Ala  
                           5                          10                          15

His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys Ile Met Val Leu Asp  
                           20                          25                          30

Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr Val Leu Leu Gln Asn  
                           35                          40                          45

Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln Leu Gly Lys Ala Glu  
                           50                          55                          60

Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg Trp Gly Phe Thr Met  
                           65                          70                          75                          80

Leu Ala Arg Leu Val Ser Asn Ser Leu Glu His His His His His His  
                           85                          90                          95

<210> 828

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 828

cgcccatggg gatccgggag aaatttgccc actgc

35

<210> 829

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 829

cgctcgagg gagtttgaga ccagcctggc caaca

35

<210> 830

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 830

gcatggacca tatgtcagcc attgagaggg tgtcagag

38

<210> 831  
 <211> 34  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 831  
 ccgctcgaga ataaggaaaa tgaagacaat ccag 34

<210> 832  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 832  
 gttgaattca tgcacggggc ccagggtg 27

<210> 833  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 833  
 cccctcgagt cactatgggtc tgcctcttga 30

<210> 834  
 <211> 915  
 <212> DNA  
 <213> Homo sapiens

<400> 834  
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 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120  
 accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180  
 ggcgcacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240  
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300  
 gcgcttaacg ggcacatcc cggtgacgtc atctcggtga cctggcaaac caagtcgggc 360  
 ggcacgcgta cagggaacgt gacattggcc gagggacccc cggcgaatt catgcacggg 420  
 ccccagggtgc tggcacgctg ctccgagtggt gcttgtcctg ccttggctgc cacctctgcg 480  
 ggggtgcgtc tggagggggt ggaccggcca ccaaccttac ccagtcaagg aagtggatgg 540  
 ccatgttccc acagcctgag tggctgccac ctgatggctg atggagcaaa ggccttagga 600  
 aaagcagatg gcccttggcc ctaccttttt gttagaagaa ctgatgttcc atgtcctgca 660  
 gcgagtgagg ttggtggctg tgccccccage tccctggcgg ccctcgcaga ggtgactggg 720

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<210> 835
<211> 304
<212> PRT
<213> Homo sapiens
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Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu  
5 10 15

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala  
35 40 45

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr  
65 70 75 80

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser  
100 105 110

Leu Ala Glu Gly Pro Pro Ala Glu Phe Met His Gly Pro Gln Val Leu  
130 135 140

Gly Val Arg Leu Glu Gly Val Asp Arg Pro Pro Thr Leu Pro Ser Gln  
165 170 175

Ala Asp Gly Ala Lys Ala Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr  
195 200 205

Gly Gly Cys Ala Pro Ser Ser Trp Arg Ala Leu Ala Glu Val Thr Gly



225                      230                      235                      240  
 Cys Ser Leu Gly Pro Leu Gly Leu Ala Gln His Ala Gln Ala Ser Val  
                                  245                                   250                                   255  
 Leu Leu Leu Cys Tyr Lys Trp Ser His Ile Gly Glu Thr Ser Ser His  
                                  260                                   265                                   270  
 Leu Arg Ser Lys Val Tyr Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu  
                                  275                                   280                                   285  
 Lys Gly Leu Met Ser Leu Trp Ala Ser Trp Leu Ser Arg Gly Arg Pro  
                                  290                                   295                                   300

<210> 836  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 836  
 cgaagtcacg tggaggccag cctc

24

<210> 837  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 837  
 cctgaccgaa ttcattaact ggccctggac

29

<210> 838  
 <211> 166  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (1)...(166)  
 <223> Xaa = Any Amino Acid

<400> 838  
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   1                                  5                                  10                                  15  
 His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile

20 25 30  
 Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser  
 35 40 45  
 Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser Gly  
 50 55 60  
 Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys Val  
 65 70 75 80  
 Asn Val Ser Val Val Ser Glu Glu Val Cys Ser Lys Leu Tyr Asp Pro  
 85 90 95  
 Leu Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gln Xaa Gln Xaa  
 100 105 110  
 Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly Tyr  
 115 120 125  
 Leu Gln Gly Leu Val Ser Phe Gly Lys Ala Pro Cys Gly Gln Val Gly  
 130 135 140  
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 145 150 155 160  
 Lys Thr Val Gln Ala Ser  
 165

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 <211> 504  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (1)...(504)  
 <223> n = A,T,C or G

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 tctgacacca tccggagcat cagcattgct tcgcagtgcc ctaccgcggg gaactcttgc 180  
 ctcgtttctg gctgggtct gctggcgaac ggcagaatgc ctaccgtgct gcagtgcgtg 240  
 aacgtgtcgg tgggtgtctga ggaggtctgc agtaagctct atgaccgcgt gtaccacccc 300  
 agcatgttct gcgccggcgg agggcaanac cagaangact cctgcaacgg tgactctggg 360  
 gggccccctga tctgcaacgg gtacttgcag ggccttgtgt ctttcggaaa agccccgtgt 420  
 ggccaagtgt gcgtgccagg tgtctacacc aacctctgca aattcactga gtggatagag 480  
 aaaaccgtcc aggccagtta atga 504

<210> 840  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 840  
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<210> 841

35

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<210> 843
<211> 729
<212> DNA
<213> Homo sapiens
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<400> 843  
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 atcctgcggg acggcgcgca gcggcaaggc ggccgcacga gcagccagag acagcgcgac 180  
 ccggagccgg agccagagcc agagccagag ggaggacgca gccgcgcggg ggcgcgagac 240  
 gaccagctga gcaccggggc ccgcgcgcgc ccggatgagg ccgagacgct ggagagagac 300  
 gagccagaaa ggcacttgga gtcttatctg ttggactctg aaaacacttc aggcgccttt 360  
 ccaaggcttc cccaaacccc taagcagccg cagaagcgct cccgagctgc cttctccac 420  
 actcaggtga tcgagttgga gaggaagttc agccatcaga agtacctgtc ggcccctgaa 480  
 cgggccacc tggccaagaa cctcaagctc acggagacc aagtgaagat atggttccag 540  
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 cactcctttt tgccggccct gaaagaggag gccttctccc gggcctccct ggtctccgtg 660  
 tataacagct atccttacta ccctacctg cactgcgtgg gcagctggag cccagctttt 720  
 tggtaatga 729

<210> 844  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 844  
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<210> 845  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 845  
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<210> 846  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

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 Leu Thr Trp Ala Thr Gly Gly His Cys Phe Ser Ser Glu Glu Ser Gly  
 35 40 45  
 Ala Val Asp Gly Ala Gly Gln Lys Lys Asp Arg Ala Trp Leu Arg Cys

50                      55                      60  
 Pro Glu Ala Val Ala Gly Phe Pro Leu Gly Ser Asp Cys Arg Glu Gly  
 65                      70                      75                      80  
 Gly Arg Gln Gly Cys Gly Gly Ser Asp Asp Glu Asp Asp Leu Gly Val  
                     85                      90                      95  
 Ala Pro Gly Leu Ala Pro Ala Trp Ala Leu Thr Gln Pro Pro Ser Gln  
                     100                      105                      110  
 Ser Pro Gly Pro Gln Ser Leu Pro Ser Thr Pro Ser Ser Ile Trp Pro  
                     115                      120                      125  
 Gln Trp Val Ile Leu Ile Thr Glu Leu Thr Ile Pro Ser Pro Ala His  
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 Gly Pro Pro Trp Leu Pro Asn Ala Leu Glu Arg Gly His Leu Val Arg  
 145                      150                      155                      160  
 Glu

<210> 847  
 <211> 489  
 <212> DNA  
 <213> Homo sapiens

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 tgcttttctt ctgaggagtc aggagctgtg gatggtgctg gacagaagaa ggacagggcc 180  
 tggctcaggt gtccagaggc tgcgctggc ttcccttttg gatcagactg cagggaggga 240  
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 gcccctgcct gggccctcac ccagcctccc tcacagtctc ctggccctca gtctctcccc 360  
 tccactccat cctccatctg gcctcagtgg gtcattctga tcaactgaact gaccataccc 420  
 agccctgccc acggccctcc atggctcccc aatgccctgg agaggggaca tctagtcaga 480  
 gagtagtga 489

<210> 848  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 848  
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                     20                      25                      30  
 Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly  
                     35                      40                      45  
 Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val  
                     50                      55                      60  
 Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val  
 65                      70                      75                      80  
 Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala  
                     85                      90                      95  
 Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp  
                     100                      105                      110

Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu  
 115 120 125  
 Gly Pro Pro Ala  
 130

<210> 849  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 849  
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<210> 850  
 <211> 40  
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<400> 850  
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<210> 851  
 <211> 1203  
 <212> DNA  
 <213> Homo sapiens

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 gtgcccctc tgctgctgga agtgggggta gaggagaagt tcatgaccat ggtgctgggc 480  
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 cgtggacgct atggccgcgc cgggcccttc atctgggcac tgtccttggg catcctgctg 600  
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tga 1203

<210> 852  
<211> 400  
<212> PRT  
<213> Homo sapiens

<400> 852  
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Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala  
35 40 45  
Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val  
50 55 60  
Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr  
65 70 75 80  
Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr  
85 90 95  
Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser  
100 105 110  
Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr  
115 120 125  
Leu Ala Glu Gly Pro Pro Ala Glu Phe Ile Thr Tyr Val Pro Pro Leu  
130 135 140  
Leu Leu Glu Val Gly Val Glu Glu Lys Phe Met Thr Met Val Leu Gly  
145 150 155 160  
Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala  
165 170 175  
Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp  
180 185 190  
Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala  
195 200 205  
Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu  
210 215 220  
Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val  
225 230 235 240

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Gly Gly Cys Leu Gly Tyr Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser  
                           275                          280                          285

Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu  
                           290                          295                          300

Leu Thr Leu Ile Phe Leu Thr Cys Val Ala Ala Thr Leu Leu Val Ala  
                           305                          310                          315                          320

Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala  
                           325                          330                          335

Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe  
                           340                          345                          350

Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg  
                           355                          360                          365

Met Pro Arg Thr Leu Arg Arg Leu Phe Val Ala Glu Leu Cys Ser Trp  
                           370                          375                          380

Met Ala Leu Met Thr Phe Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu  
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<211> 20

<212> PRT

<213> Homo sapiens

<400> 853

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<210> 854

<211> 60

<212> DNA

<213> Homo sapiens

<400> 854

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<210> 855

<211> 10



Ala Ser Asp

<210> 861  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 861  
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Met Val Leu

<210> 862  
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 <212> PRT  
 <213> Homo sapiens

<400> 862  
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Gln Leu Leu

<210> 863  
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<220>  
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 <223> n = A,T,C or G

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 <212> DNA  
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<210> 865

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 <212> PRT  
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<400> 868  
 Asn Leu Cys Lys Phe Thr Glu Trp Ile  
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<210> 869  
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 <212> PRT  
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<400> 869  
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<210> 870  
 <211> 9  
 <212> PRT  
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<400> 870

Leu Leu Ala Asn Asp Leu Met Leu Ile  
1 5

<210> 871

<211> 10

<212> PRT

<213> Homo sapiens

<400> 871

Leu Leu Ala Asn Gly Arg Met Pro Thr Val  
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<210> 872

<211> 10

<212> PRT

<213> Homo sapiens

<400> 872

Leu Met Leu Ile Lys Leu Asp Glu Ser Val  
1 5 10

<210> 873

<211> 10

<212> PRT

<213> Homo sapiens

<400> 873

Val Leu Gln Cys Val Asn Val Ser Val Val  
1 5 10

<210> 874

<211> 10

<212> PRT

<213> Homo sapiens

<400> 874

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<210> 875

<211> 10

<212> PRT

<213> Homo sapiens

<400> 875

Thr Val Leu Gln Cys Val Asn Val Ser Val  
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<210> 876

<211> 9

<212> PRT

<213> Homo sapiens

&lt;400&gt; 876

Gly Val Leu Val His Pro Gln Trp Val

1 5

&lt;210&gt; 877

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 877

Val Leu Val His Pro Gln Trp Val Leu

1 5

&lt;210&gt; 878

&lt;211&gt; 1195

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 878

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&lt;210&gt; 879

&lt;211&gt; 339

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 879

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 Gln Glu Leu Phe Pro Gln Trp His Leu Pro Ile Lys Ile Ala Ala Ile  
 65 70 75 80  
 Ile Ala Ser Leu Thr Phe Leu Tyr Thr Leu Leu Arg Glu Val Ile His  
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 Pro Leu Ala Thr Ser His Gln Gln Tyr Phe Tyr Lys Ile Pro Ile Leu  
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 Thr Lys Tyr Lys Lys Phe Pro His Trp Leu Asp Lys Trp Met Leu Thr  
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 180 185 190  
 Leu Asn Trp Ala Tyr Gln Gln Val Gln Gln Asn Lys Glu Asp Ala Trp  
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 225 230 235 240  
 Val Ser Asp Ser Leu Thr Trp Arg Glu Phe His Tyr Ile Gln Ser Lys  
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Ser Gln Leu

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 <213> Homo sapiens

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<212> DNA  
<213> Homo sapiens

<400> 881

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<210> 882  
<211> 2455  
<212> DNA  
<213> Homo sapiens

<400> 882

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&lt;210&gt; 883

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 883

Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn  
5 10 15

His Gly Gly Arg Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln  
20 25 30

Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Glu  
35 40 45

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<210> 884
<211> 135
<212> PRT
<213> Homo sapiens
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Leu Leu Asn Tyr Gln Val Ser  
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<210> 885
<211> 77
<212> PRT
<213> Homo sapiens
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Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro  
35 40 45

Leu Arg Pro Gly Val Ser Val Thr Leu Leu Gly Ser Val Cys Leu Gln  
 50 55 60

Asp Leu Pro Pro Leu Pro Trp Tyr Arg Arg Lys Val Leu  
 65 70 75

<210> 886

<211> 60

<212> PRT

<213> Homo sapiens

<400> 886

Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly  
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Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser  
 20 25 30

Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser  
 35 40 45

Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe  
 50 55 60

<210> 887

<211> 76

<212> PRT

<213> Homo sapiens

<400> 887

Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys  
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Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg  
 20 25 30

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro  
 35 40 45

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly  
 50 55 60

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys  
 65 70 75

<210> 888

<211> 76

<212> PRT

<213> Homo sapiens

<400> 888

Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp

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 Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu  
 20 25 30  
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 35 40 45  
 Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp  
 50 55 60  
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 65 70 75

<210> 889  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 889  
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 Asn Val Gln Gly Ala Ile Cys Ser Phe Lys Lys Ile Ile Phe Gly Gln  
 35 40 45  
 Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala Lys Val  
 50 55 60  
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<210> 890  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 890  
 Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro His Asn Pro  
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 20 25 30  
 Gln Ser Gln Thr Val Ser Asp Ala Ala Gly Ala Gly Asp Thr Glu Thr  
 35 40 45  
 Thr Gln Thr Trp Cys Leu Cys His Ser Ser Gly Leu Cys Leu Ser Pro  
 50 55 60

Gly Pro Pro Ser Pro Ser Met Val  
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<210> 891  
<211> 77  
<212> PRT  
<213> Homo sapiens

<400> 891  
Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro Ile Ile Gln  
5 10 15

Ser Pro Pro Thr Arg Ser Pro Pro Thr Arg Gly Ile Gly Trp Gly His  
20 25 30

Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro  
35 40 45

Leu Arg Pro Gly Val Ser Val Thr Leu Leu Gly Ser Val Cys Leu Gln  
50 55 60

Asp Leu Pro Pro Leu Pro Trp Tyr Arg Arg Lys Val Leu  
65 70 75

<210> 892  
<211> 60  
<212> PRT  
<213> Homo sapiens

<400> 892  
Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly  
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Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser  
20 25 30

Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser  
35 40 45

Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe  
50 55 60

<210> 893  
<211> 76  
<212> PRT  
<213> Homo sapiens

<400> 893  
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5 10 15

Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg  
20 25 30

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro  
35 40 45

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly  
50 55 60

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys  
65 70 75

<210> 894

<211> 2479

<212> DNA

<213> Homo sapiens

<400> 894

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<210> 895
<211> 492
<212> PRT
<213> Homo sapiens
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Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu  
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Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro  
35 40 45

Val	Cys	Thr	Gln	Pro	Lys	Ser	Pro	Ser	Gly	Thr	Val	Cys	Thr	Ser	Lys
65					70					75					80

Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys  
100 105 110

Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp  
130 135 140

Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp  
165 170 175

Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser  
195 200 205

Phe Met Lys Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys  
 210 215 220  
 Leu Tyr His Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg  
 225 230 235 240  
 Cys Leu Ala Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile  
 245 250 255  
 Val Gly Gly Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser  
 260 265 270  
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 275 280 285  
 Glu Trp Ile Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn  
 290 295 300  
 Pro Trp His Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met  
 305 310 315 320  
 Phe Tyr Gly Ala Gly Tyr Gln Val Gln Lys Val Ile Ser His Pro Asn  
 325 330 335  
 Tyr Asp Ser Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln  
 340 345 350  
 Lys Pro Leu Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn  
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 Pro Gly Met Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp  
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 385 390 395 400  
 Lys Val Leu Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr  
 405 410 415  
 Asp Asn Leu Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly  
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 Asn Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser  
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<210> 896  
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 <212> DNA  
 <213> Homo sapiens

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<210> 897  
 <211> 209  
 <212> PRT  
 <213> Homo sapiens

<400> 897  
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 Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro  
 35 40 45  
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 50 55 60  
 Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys  
 65 70 75 80  
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 Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys  
 100 105 110  
 Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn  
 115 120 125  
 Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp  
 130 135 140  
 Glu Asn Arg Cys Val Arg Leu Tyr Gly Pro Asn Phe Ile Leu Gln Met  
 145 150 155 160  
 Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp  
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<210> 898
<211> 27
<212> PRT
<213> Homo sapiens
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<210> 899
<211> 35
<212> DNA
<213> Artificial Sequence
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<400> 899
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35

<220>  
<223> PCR primer

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<400> 900
gtcgactcag ctggaccaca gccgcag
```

27

```
<210> 901
<211> 34
<212> DNA
<213> Artificial Sequence
```

<220>  
<223> PCR primer

```
<400> 901
ggatccgccg ccaccatggg ctgcaggctg ctct
```

34

```
<210> 902
<211> 27
<212> DNA
<213> Artificial Sequence
```

<220>

<223> PCR primer

<400> 902

gtcgactcag aaatcctttc tcttgac

27

<210> 903

<211> 936

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...()

<223> n = A,T,C or G

<400> 903

```
atgggctgca ggctgntctg ctgtgcggtt ctctgtctcc tgggagcggg ccccatggaa 60
acgggagtta cgcagacacc aagacacctg gtcattggga tgacaaataa gaagtctttg 120
aaatgtgaac aacatctggg tcataacgct atgtattggg acaagcaaag tgctaagaag 180
ccactggagc tcatgtttgt ctacagtctt gaagaacggg ttgaaaacaa cagtgtgcc 240
agtcgcttct cactgaatg ccccaacagc tctcacttat tcttccacct acacacctg 300
cagccagaag actcggccct gtatctctgc gccagcagcc aagaccggac aagcagctcc 360
tacgagcagt acttcgggcc gggcaccagg ctacagggtc cagaggacct gaaaaacgtg 420
ttcccaccgg aggtcgctgt gtttgagcca tcagaagcag agatctccca caccctaaaag 480
gccacactgg tgtgcctggc cacaggcttc taccocgacc acgtggagct gagctgggtg 540
gtgaatggga aggaggtgca cagtggggtc agcacagacc cgcagcccct caaggagcag 600
ccgcacctca atgactccag atactgcctg agcagccgcc tgaggggtct gccacacct 660
tggcagaacc cccgcaacca cttccgctgt caagtccagt tctacgggct ctcgagaaat 720
gacgagtggg cccaggatag ggccaaacct gtcaccaga tcgtcagcgc cgaggcctgg 780
ggtagagcag actgtggctt cacctccgag tcttaccagc aaggggtcct gtctgccacc 840
atcctctatg agatcttgtt agggaaaggc accttgatat ccgtgctggg cagtgccttc 900
gtgctgatgg ccatgggtcaa gagaaaggat ttctga 936
```

<210> 904

<211> 834

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...()

<223> n = A,T,C or G

<400> 904

```
atgtcacttt ctacgctgct naagggtggc acagcttcac tgtggctagg acctggcatt 60
gccagaaga taactcaaac ccaaccagga atgttcgtgc aggaaaagga ggctgtgact 120
ctggactgca catatgacac cagtgatcaa agttatggc tcttctggta caagcagccc 180
agcagtgggg aaatgatttt tcttatttat caggggtctt atgacgagca aaatgcaaca 240
gaaggctcgt actcattgaa tttccagaag gcaagaaaat ccgccaacct tgtcatctcc 300
gcttcacaac tgggggactc agcaatgtat ttctgtgcaa tgagagaggg cgcgggagga 360
ggaaacaaac tcacctttgg gacaggcact cagctaaaag tggaactcaa tatccagaac 420
```

```

cctgaccctg ccgtgtacca gctgagagac tctaaatcca gtgacaagtc tgtctgccta 480
ttcaccgatt ttgattctca aacaaatgtg tcacaaagta aggattctga tgtgtatatc 540
acagacaaaa ctgtgctaga catgaggtct atggacttca agagcaacag tgctgtggcc 600
tggagcaaca aatctgactt tgcattgtgca aacgccttca acaacagcat tattccagaa 660
gacaccttct tccccagccc agaaaagttcc tgtgatgtca agctgggtcga gaaaagcttt 720
gaaacagata cgaacctaaa ctttcaaaac ctgtcagtgga ttgggttccg aatcctcttc 780
ctgaaagtgg ccgggtttta tctgctcatg acgctgcggc tgtggtccag ctga      834

```

<210> 905

<211> 311

<212> PRT

<213> Homo sapiens

<220>

<221> variant

<222> (1)...(311)

<223> Xaa = Any amino acid

<400> 905

```

Met Gly Cys Arg Leu Xaa Cys Cys Ala Val Leu Cys Leu Leu Gly Ala
                    5                      10                      15

```

```

Val Pro Met Glu Thr Gly Val Thr Gln Thr Pro Arg His Leu Val Met
                20                      25                      30

```

```

Gly Met Thr Asn Lys Lys Ser Leu Lys Cys Glu Gln His Leu Gly His
                35                      40                      45

```

```

Asn Ala Met Tyr Trp Tyr Lys Gln Ser Ala Lys Lys Pro Leu Glu Leu
                50                      55                      60

```

```

Met Phe Val Tyr Ser Leu Glu Glu Arg Val Glu Asn Asn Ser Val Pro
                65                      70                      75                      80

```

```

Ser Arg Phe Ser Pro Glu Cys Pro Asn Ser Ser His Leu Phe Leu His
                85                      90                      95

```

```

Leu His Thr Leu Gln Pro Glu Asp Ser Ala Leu Tyr Leu Cys Ala Ser
                100                      105                      110

```

```

Ser Gln Asp Arg Thr Ser Ser Ser Tyr Glu Gln Tyr Phe Gly Pro Gly
                115                      120                      125

```

```

Thr Arg Leu Thr Val Thr Glu Asp Leu Lys Asn Val Phe Pro Pro Glu
                130                      135                      140

```

```

Val Ala Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys
                145                      150                      155                      160

```

```

Ala Thr Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu
                165                      170                      175

```

```

Leu Ser Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr
                180                      185                      190

```

Asp Pro Gln Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr  
195 200 205

Cys Leu Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro  
210 215 220

Arg Asn His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn  
225 230 235 240

Asp Glu Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser  
245 250 255

Ala Glu Ala Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr  
260 265 270

Gln Gln Gly Val Leu Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly  
275 280 285

Lys Ala Thr Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met Ala  
290 295 300

Met Val Lys Arg Lys Asp Phe  
305 310

<210> 906

<211> 277

<212> PRT

<213> Homo sapiens

<400> 906

Met Ser Leu Ser Ser Leu Leu Lys Val Val Thr Ala Ser Leu Trp Leu  
5 10 15

Gly Pro Gly Ile Ala Gln Lys Ile Thr Gln Thr Gln Pro Gly Met Phe  
20 25 30

Val Gln Glu Lys Glu Ala Val Thr Leu Asp Cys Thr Tyr Asp Thr Ser  
35 40 45

Asp Gln Ser Tyr Gly Leu Phe Trp Tyr Lys Gln Pro Ser Ser Gly Glu  
50 55 60

Met Ile Phe Leu Ile Tyr Gln Gly Ser Tyr Asp Glu Gln Asn Ala Thr  
65 70 75 80

Glu Gly Arg Tyr Ser Leu Asn Phe Gln Lys Ala Arg Lys Ser Ala Asn  
85 90 95

Leu Val Ile Ser Ala Ser Gln Leu Gly Asp Ser Ala Met Tyr Phe Cys  
100 105 110

Ala Met Arg Glu Gly Ala Gly Gly Gly Asn Lys Leu Thr Phe Gly Thr

115	120	125
Gly Thr Gln Leu Lys Val	Glu Leu Asn Ile Gln Asn Pro Asp Pro Ala	
130	135	140
Val Tyr Gln Leu Arg Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu		
145	150	155 160
Phe Thr Asp Phe Asp Ser Gln Thr Asn Val Ser Gln Ser Lys Asp Ser		
	165	170 175
Asp Val Tyr Ile Thr Asp Lys Thr Val Leu Asp Met Arg Ser Met Asp		
	180	185 190
Phe Lys Ser Asn Ser Ala Val Ala Trp Ser Asn Lys Ser Asp Phe Ala		
	195	200 205
Cys Ala Asn Ala Phe Asn Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe		
	210	215 220
Pro Ser Pro Glu Ser Ser Cys Asp Val Lys Leu Val Glu Lys Ser Phe		
	225	230 235 240
Glu Thr Asp Thr Asn Leu Asn Phe Gln Asn Leu Ser Val Ile Gly Phe		
	245	250 255
Arg Ile Leu Leu Leu Lys Val Ala Gly Phe Asn Leu Leu Met Thr Leu		
	260	265 270
Arg Leu Trp Ser Ser		
	275	

&lt;210&gt; 907

&lt;211&gt; 1536

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 907

```

atgtacaacc tgttgctgtc ctaogacaga catggggacc acctgcagcc cctggacctc 60
gtgccaatc accagggtct caccctttc aagctggctg gactggaggg taacactgtg 120
atgtttcagc acctgatgca gaagcggaag cacaccaggt ggacgtatgg accactgacc 180
tcgactctct atgacctcac agagatcgac tcctcagggg atgagcagtc cctgctggaa 240
cttatcatca ccaccaagaa gcgggaggct cgccagatcc tggaccagac gccgggtgaag 300
gagctgggtga gcctcaagtg gaagcggtac gggcgccgt acttctgcat gctgggtgcc 360
atatatctgc tgtacatcat ctgettcaac atgtgctgca tctaccgcc cctcaagccc 420
aggaccaata accgcacgag ccccggggac aacaccctct tacagcagaa gctacttcag 480
gaagcctaca tgacccttaa ggacgatatc cggttggtcg gggagctggt gactgtcatt 540
ggggctatca tcactctgct ggtagaggtt ccagacatct tcagaatggg ggtcactcgc 600
ttctttggac agaccatcct tgggggcccc ttccatgtcc tcatcatcac ctatgccttc 660
atggtgctgg tgaccatggt gatgcggctc atcagtgcc gcggggaggt ggtacccatg 720
tcctttgcac tcgtgctggg ctggtgcaac gtcattgtact tcgcccagag attccagatg 780
ctaggccctt tcaccatcat gattcagaag atgatttttg gcgacctgat gcgattctgc 840
tggtgatggt ctgtggtcat cctgggcttt gcttcagcct tctatatcat cttccagaca 900

```



Pro Leu Asp Leu Val Pro Asn His Gln Gly Leu Thr Pro Phe Lys Leu  
 20 25 30  
 Ala Gly Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys  
 35 40 45  
 Arg Lys His Thr Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr  
 50 55 60  
 Asp Leu Thr Glu Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu  
 65 70 75 80  
 Leu Ile Ile Thr Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln  
 85 90 95  
 Thr Pro Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg  
 100 105 110  
 Pro Tyr Phe Cys Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys  
 115 120 125  
 Phe Thr Met Cys Cys Ile Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn  
 130 135 140  
 Arg Thr Ser Pro Arg Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln  
 145 150 155 160  
 Glu Ala Tyr Met Thr Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu  
 165 170 175  
 Val Thr Val Ile Gly Ala Ile Ile Ile Leu Leu Val Glu Val Pro Asp  
 180 185 190  
 Ile Phe Arg Met Gly Val Thr Arg Phe Phe Gly Gln Thr Ile Leu Gly  
 195 200 205  
 Gly Pro Phe His Val Leu Ile Ile Thr Tyr Ala Phe Met Val Leu Val  
 210 215 220  
 Thr Met Val Met Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met  
 225 230 235 240  
 Ser Phe Ala Leu Val Leu Gly Trp Cys Asn Val Met Tyr Phe Ala Arg  
 245 250 255  
 Gly Phe Gln Met Leu Gly Pro Phe Thr Ile Met Ile Gln Lys Met Ile  
 260 265 270  
 Phe Gly Asp Leu Met Arg Phe Cys Trp Leu Met Ala Val Val Ile Leu  
 275 280 285  
 Gly Phe Ala Ser Ala Phe Tyr Ile Ile Phe Gln Thr Glu Asp Pro Glu  
 290 295 300



Glu Leu Gly His Phe Tyr Asp Tyr Pro Met Ala Leu Phe Ser Thr Phe  
305 310 315 320

Glu Leu Phe Leu Thr Ile Ile Asp Gly Pro Ala Asn Tyr Asn Val Asp  
325 330 335

Leu Pro Phe Met Tyr Ser Ile Thr Tyr Ala Ala Phe Ala Ile Ile Ala  
340 345 350

Thr Leu Leu Met Leu Asn Leu Leu Ile Ala Met Met Gly Asp Thr His  
355 360 365

Trp Arg Val Ala His Glu Arg Asp Glu Leu Trp Arg Ala Gln Ile Val  
370 375 380

Ala Thr Thr Val Met Leu Glu Arg Lys Leu Pro Arg Cys Leu Trp Pro  
385 390 395 400

Arg Ser Gly Ile Cys Gly Arg Glu Tyr Gly Leu Gly Asp Arg Trp Phe  
405 410 415

Leu Arg Val Glu Asp Arg Gln Asp Leu Asn Arg Gln Arg Ile Gln Arg  
420 425 430

Tyr Ala Gln Ala Phe His Thr Arg Gly Ser Glu Asp Leu Asp Lys Asp  
435 440 445

Ser Val Glu Lys Leu Glu Leu Gly Cys Pro Phe Ser Pro His Leu Ser  
450 455 460

Leu Pro Met Pro Ser Val Ser Arg Ser Thr Ser Arg Ser Ser Ala Asn  
465 470 475 480

Trp Glu Arg Leu Arg Gln Gly Thr Leu Arg Arg Asp Leu Arg Gly Ile  
485 490 495

Ile Asn Arg Gly Leu Glu Asp Gly Glu Ser Trp Glu Tyr Gln Ile  
500 505 510

<210> 910

<211> 134

<212> PRT

<213> Homo sapiens

<400> 910

Met Tyr Asn Leu Leu Leu Ser Tyr Asp Arg His Gly Asp His Leu Gln  
5 10 15

Pro Leu Asp Leu Val Pro Asn His Gln Gly Leu Thr Pro Phe Lys Leu  
20 25 30

Ala Gly Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys  
35 40 45

Arg Lys His Thr Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr  
50 55 60

Asp Leu Thr Glu Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu  
65 70 75 80

Leu Ile Ile Thr Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln  
85 90 95

Thr Pro Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg  
100 105 110

Pro Tyr Phe Cys Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys  
115 120 125

Phe Thr Met Cys Cys Ile  
130

<210> 911

<211> 55

<212> PRT

<213> Homo sapiens

<400> 911

Ala Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn Arg Thr Ser Pro Arg  
5 10 15

Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln Glu Ala Tyr Met Thr  
20 25 30

Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu Val Thr Val Ile Gly  
35 40 45

Ala Ile Ile Ile Leu Leu Val  
50 55

<210> 912

<211> 39

<212> PRT

<213> Homo sapiens

<400> 912

Glu Val Pro Asp Ile Phe Arg Met Gly Val Thr Arg Phe Phe Gly Gln  
5 10 15

Thr Ile Leu Gly Gly Pro Phe His Val Leu Ile Ile Thr Tyr Ala Phe  
20 25 30

Met Val Leu Val Thr Met Val  
35

<210> 913  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 913  
 Met Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met Ser Phe Ala  
                   5                  10                  15

Leu Val Leu

<210> 914  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 914  
 Gly Trp Cys Asn Val Met Tyr Phe Ala Arg Gly Phe Gln Met Leu Gly  
                   5                  10                  15

Pro Phe Thr Ile Met Ile Gln Lys Met Ile Phe Gly Asp Leu Met Arg  
                   20                  25                  30

Phe Cys Trp Leu Met Ala Val Val Ile Leu Gly Phe Ala Ser Ala Phe  
                   35                  40                  45

Tyr Ile Ile Phe  
           50

<210> 915  
 <211> 213  
 <212> PRT  
 <213> Homo sapiens

<400> 915  
 Gln Thr Glu Asp Pro Glu Glu Leu Gly His Phe Tyr Asp Tyr Pro Met  
                   5                  10                  15

Ala Leu Phe Ser Thr Phe Glu Leu Phe Leu Thr Ile Ile Asp Gly Pro  
                   20                  25                  30

Ala Asn Tyr Asn Val Asp Leu Pro Phe Met Tyr Ser Ile Thr Tyr Ala  
                   35                  40                  45

Ala Phe Ala Ile Ile Ala Thr Leu Leu Met Leu Asn Leu Leu Ile Ala  
                   50                  55                  60

Met Met Gly Asp Thr His Trp Arg Val Ala His Glu Arg Asp Glu Leu  
           65                  70                  75                  80

Trp Arg Ala Gln Ile Val Ala Thr Thr Val Met Leu Glu Arg Lys Leu  
                     85                    90                    95  
 Pro Arg Cys Leu Trp Pro Arg Ser Gly Ile Cys Gly Arg Glu Tyr Gly  
                     100                    105                    110  
 Leu Gly Asp Arg Trp Phe Leu Arg Val Glu Asp Arg Gln Asp Leu Asn  
                     115                    120                    125  
 Arg Gln Arg Ile Gln Arg Tyr Ala Gln Ala Phe His Thr Arg Gly Ser  
                     130                    135                    140  
 Glu Asp Leu Asp Lys Asp Ser Val Glu Lys Leu Glu Leu Gly Cys Pro  
                     145                    150                    155                    160  
 Phe Ser Pro His Leu Ser Leu Pro Met Pro Ser Val Ser Arg Ser Thr  
                     165                    170                    175  
 Ser Arg Ser Ser Ala Asn Trp Glu Arg Leu Arg Gln Gly Thr Leu Arg  
                     180                    185                    190  
 Arg Asp Leu Arg Gly Ile Ile Asn Arg Gly Leu Glu Asp Gly Glu Ser  
                     195                    200                    205  
 Trp Glu Tyr Gln Ile  
                     210

<210> 916  
 <211> 1302  
 <212> DNA  
 <213> Homo sapiens

<400> 916  
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 tcacagttca gcttcttcat gatggtggat cccaatggca atgaatccag tgctacatac 120  
 ttcatectaa taggcctccc tggtttagaa gaggctcagt tctggttggc cttcccattg 180  
 tgtccctct accttattgc tgtgctaggt aacttgacaa tcatctacat tgtgcggact 240  
 gagcacagcc tgcattgagcc catgtatata tttctttgca tgctttcagg cattgacatc 300  
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 catgccacag tacttacgtt gcctcgtgtc accaaaattg gtgtggctgc tgtggtgcgg 540  
 ggggctgcac tgatggcacc ccttctgtc ttcattcaagc agctgccctt ctgccgctcc 600  
 aatatcctt cccattccta ctgcctacac caagatgtca tgaagctggc ctgtgatgat 660  
 atccgggtca atgtcgtcta tggccttata gtcattatct ccgccattgg cctggactca 720  
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 gcttcagagc cctagggtgtc agtgatcaaa cttcttttcc attcagagtc ctctgattca 1080  
 gattttaatg ttaacatttt ggaagacagt attcagaaaa aaaatttct taataaaaaat 1140

acaactcaga tccttcaaat atgaaactgg ttggggaatc tccatttttt caatattatt 1200  
 ttcttctttg ttttcttgct acatataatt attaataccc tgactagggt gtgggttgag 1260  
 gggtattact tttcatttta ccatgcagtc caaatctaaa ct 1302

<210> 917  
 <211> 2061  
 <212> DNA  
 <213> Homo sapiens

<400> 917  
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 attttggaag acagtattca gaaaaaaaaat ttcttaata aaaatacaac tcagatcctt 180  
 caaatatgaa actggttggg gaatctccat tttttcaata ttattttctt ctttgttttc 240  
 ttgctacata taattattaa taccctgact aggttggtgtg tggagggtta ttacttttca 300  
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 cagaatataa taaaatgaga taatctagct taaaactata acttctctct cagaactccc 480  
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 tctggccatt acttccaatg tgagtgaag tgacatgtgc aatttctata cctggctcat 1860  
 aaaacccctc catgtgcagc ctttcatgtt gacattaaat gtgacttggg aagctatgtg 1920  
 ttacacagag taaatcacca gaagcctgga tttctgaaaa aactgtgcag agccaaacct 1980  
 ctgtcatttg caactccac ttgtatttgt acgaggcagt tggataagtg aaaaataaag 2040  
 tactattgtg tcaagtctct g 2061

<210> 918  
 <211> 957  
 <212> DNA  
 <213> Homo sapiens

<400> 918  
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cctgggttag aagaggctca gttctggttg gccttcccat tgtgtccct ctaccttatt 120
gctgtgctag gtaacttgac aatcatctac attgtgcgga ctgagcacag cctgcatgag 180
cccatgtata tatttccttg catgctttca ggcattgaca tctcatctc cacctcatcc 240
atgccccaaa tgctggccat cttctggttc aattccacta ccatccagtt tgatgcttgt 300
ctgctacaga tgtttgccat ccactcctta tctggcatgg aatccacagt gctgctggcc 360
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ttgcctcgtg tcacccaaat tgggtgggct gctgtgggtg ggggggctgc actgatggca 480
cccttctctg tcttcatcaa gcagctgccc ttctgccgt ccaatactt tctccattcc 540
tactgcctac accaagatgt catgaagctg gcctgtgat atatccgggt caatgtcgtc 600
tatggcctta tcgtcatcat ctccgccatt ggctggact cacttctcat ctcttctca 660
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<211> 954

<212> DNA

<213> Homo sapiens

<400> 919

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<211> 318

<212> PRT

<213> Homo sapiens

<400> 920

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          20                      25                      30

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Pro Leu Cys Ser Leu Tyr Leu Ile Ala Val Leu Gly Asn Leu Thr Ile
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 Met Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala  
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 245 250 255  
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 260 265 270  
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<400> 923  
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<400> 924  
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<400> 925



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&lt;210&gt; 930

&lt;211&gt; 1479

<212> DNA  
 <213> Homo sapiens

<400> 930

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<210> 931  
 <211> 1476  
 <212> DNA  
 <213> Homo sapiens

<400> 931

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<210> 932
<211> 492
<212> PRT
<213> Homo sapiens
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				20					25					30		
Val	Pro	Thr	Val	Tyr	Glu	Val	His	Pro	Ala	Gln	Tyr	Tyr	Pro	Ser	Pro	
				35					40					45		
Val	Pro	Gln	Tyr	Ala	Pro	Arg	Val	Leu	Thr	Gln	Ala	Ser	Asn	Pro	Val	
				50					55					60		
Val	Cys	Thr	Gln	Pro	Lys	Ser	Pro	Ser	Gly	Thr	Val	Cys	Thr	Ser	Lys	
				65					70					75		
Thr	Lys	Lys	Ala	Leu	Cys	Ile	Thr	Leu	Thr	Leu	Gly	Thr	Phe	Leu	Val	
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Gly	Ala	Ala	Leu	Ala	Ala	Gly	Leu	Leu	Trp	Lys	Phe	Met	Gly	Ser	Lys	
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Cys	Ser	Asn	Ser	Gly	Ile	Glu	Cys	Asp	Ser	Ser	Gly	Thr	Cys	Ile	Asn	
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Pro	Ser	Asn	Trp	Cys	Asp	Gly	Val	Ser	His	Cys	Pro	Gly	Gly	Glu	Asp	
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Glu	Asn	Arg	Cys	Val	Arg	Leu	Tyr	Gly	Ser	Asn	Phe	Ile	Leu	Gln	Val	
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Tyr	Ser	Ser	Gln	Arg	Lys	Ser	Trp	His	Pro	Val	Cys	Gln	Asp	Asp	Trp	
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Asn	Glu	Asn	Tyr	Gly	Arg	Ala	Ala	Cys	Arg	Asp	Met	Gly	Tyr	Lys	Asn	
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Asn	Phe	Tyr	Ser	Ser	Gln	Gly	Ile	Val	Asp	Asp	Ser	Gly	Ser	Thr	Ser	
				195					200					205		
Phe	Met	Lys	Leu	Asn	Thr	Ser	Ala	Gly	Asn	Val	Asp	Ile	Tyr	Lys	Lys	
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Leu	Tyr	His	Ser	Asp	Ala	Cys	Ser	Ser	Lys	Ala	Val	Val	Ser	Leu	Arg	
				225					230					235		
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Glu	Trp	Ile	Val	Thr	Ala	Ala	His	Cys	Val	Glu	Lys	Pro	Leu	Asn	Asn	
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 Phe Tyr Gly Ala Gly Tyr Gln Val Glu Lys Val Ile Ser His Pro Asn  
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 Tyr Asp Ser Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln  
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 Lys Pro Leu Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn  
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 Pro Gly Met Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp  
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 Gly Ala Thr Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala  
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 Lys Val Leu Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr  
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 420 425 430  
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 435 440 445  
 Lys Asn Asn Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly  
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 <212> PRT  
 <213> Homo sapiens

<400> 933  
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 35 40 45  
 Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val  
 50 55 60  
 Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys  
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 Gly Ala Ala Leu  
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<210> 934  
 <211> 393  
 <212> PRT  
 <213> Homo sapiens

<400> 934

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 Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp Glu Asn Arg  
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 Cys Val Arg Leu Tyr Gly Ser Asn Phe Ile Leu Gln Val Tyr Ser Ser  
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 Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Trp Asn Glu Asn  
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 Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp Gly Ala Thr  
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                   290                  295                  300  
 Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr Asp Asn Leu  
                   305                  310                  315                  320  
 Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly Asn Val Asp  
                   325                  330                  335  
 Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser Lys Asn Asn  
                   340                  345                  350  
 Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly Cys Ala Lys  
                   355                  360                  365  
 Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe Thr Asp Trp  
                   370                  375                  380  
 Ile Tyr Arg Gln Met Arg Ala Asp Gly  
                   385                  390

&lt;210&gt; 935

&lt;211&gt; 22

&lt;212&gt; DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 935

gtgctgtggg agtccccgcg gc

22

<210> 936

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 936

cgtgaactcg agtcattaga ttaacctcgt ggacgc

36

<210> 937

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 937

gtgctgtggg agtccccgcg gc

22

<210> 938

<211> 1158

<212> DNA

<213> Homo sapiens

<400> 938

catatgcagc atcaccacca tcaccacgtg ctgtgggagt ccccgcgga gtgcagcagc 60  
 tggacacttt gcgagggctt ttgctggctg ctgctgctgc ccgtcatgct actcatcgta 120  
 gcccggccgg tgaagctcgc tgctttccct acctccttaa gtgactgcca aacgcccacc 180  
 ggctggaatt gctctgggta tgatgacaga gaaaatgac tcttcctctg tgacaccaac 240  
 acctgtaaat ttgatgggga atgtttaaga attggagaca ctgtgacttg cgtctgtcag 300  
 ttcaagtgca acaatgacta tgtgcctgtg tgtggctcca atggggagag ctaccagaat 360  
 gagtgttacc tgcgacaggc tgcattgcaa cagcagagtg agatacttgt ggtgtcagaa 420  
 ggatcatgtg ccacagatgc aggatcagga tctggagatg gaggccatga aggctctgga 480  
 gaaactagtc aaaaggagac atccacctgt gatatttgcc agtttggtgc agaattgtgac 540  
 gaagatgccg aggatgtctg gtgtgtgtgt aatattgact gttctcaaac caacttcaat 600  
 cccctctgcg cttctgatgg gaaatcttat gataatgcac gccaaatcaa agaagcatcg 660  
 tgtcagaaac aggagaaaat tgaagtcatt tctttgggtc gatgtcaaga taacacaact 720  
 acaactacta agtctgaaga tgggcattat gcaagaacag attatgcaga gaatgctaac 780  
 aaattagaag aaagtgccag agaacaccac ataccttgct cggaacatta caatggcttc 840  
 tgcattgcatt ggaagtgtga gcattctatc aatatgcagg agccatcttg cagggtgtgat 900

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gctgggttata ctggacaaca ctgtgaaaaa aaggactaca gtgttctata cgttggttccc 960
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gtcatctgtg tgggtggctct ctgcatcaca aggaaatgcc ccagaagcaa cagaattcac 1080
agacagaagc aaaatacagg gcactacagt tcagacaata caacaagagc gtccacgagg 1140
ttaatctaatt gactcgag                                     1158

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<210> 939

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 939

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atgcagcatc accaccatca ccacgactgc caaacgcccc ccggctggaa ttgctctggt 60
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gaatgtttaa gaattggaga cactgtgact tgcgtctgtc agttcaagtg caacaatgac 180
tatgtgectg tgtgtggctc caatggggag agctaccaga atgagtgtta cctgcgacag 240
gtcgcattga aacagcagag tgagatactt gtggtgtcag aaggatcatg tgccacagat 300
gcaggatcag gatctggaga tggagtcctt gaaggctctg gagaaactag tcaaaaggag 360
acatccacct gtgatatttg ccagtttggg gcagaatgtg acgaagatgc cgaggatgtc 420
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gatgggcatt atgcaagaac agattatgca gagaatgcta acaaattaga agaaagtgcc 660
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gagcattcta tcaatatgca ggagccatct tgcaggtgtg atgctgggta tactggacaa 780
cactgtgaaa aaaaggacta cagtgttcta tacgttggtc ccggtcctgt acgatttcag 840
tatgtcttaa tcgcagctgt gattggaaca attcagattg ctgtcatctg tgtggtggtc 900
ctctgcatca caaggaaatg cccagaagc aacagaattc acagacagaa gcaaaatata 960
gggcactaca gttcagacaa tacaacaaga gcgtccacga ggtaaatcta atgactcgag 1020

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<210> 940

<211> 336

<212> PRT

<213> Homo sapiens

<400> 940

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Met Gln His His His His His Asp Cys Gln Thr Pro Thr Gly Trp
                    5              10              15
Asn Cys Ser Gly Tyr Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp
                20              25              30
Thr Asn Thr Cys Lys Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr
                35              40              45
Val Thr Cys Val Cys Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val
                50              55              60
Cys Gly Ser Asn Gly Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln
                65              70              75              80
Ala Ala Cys Lys Gln Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser
                85              90              95
Cys Ala Thr Asp Ala Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly
                100              105              110
Ser Gly Glu Thr Ser Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln
                115              120              125
Phe Gly Ala Glu Cys Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys
                130              135              140

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Asn Ile Asp Cys Ser Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp
145           150           155           160
Gly Lys Ser Tyr Asp Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln
           165           170           175
Lys Gln Glu Lys Ile Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn
           180           185           190
Thr Thr Thr Thr Thr Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp
           195           200           205
Tyr Ala Glu Asn Ala Asn Lys Leu Glu Glu Ser Ala Arg Glu His His
           210           215           220
Ile Pro Cys Pro Glu His Tyr Asn Gly Phe Cys Met His Gly Lys Cys
225           230           235           240
Glu His Ser Ile Asn Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly
           245           250           255
Tyr Thr Gly Gln His Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val
           260           265           270
Val Pro Gly Pro Val Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile
           275           280           285
Gly Thr Ile Gln Ile Ala Val Ile Cys Val Val Val Leu Cys Ile Thr
           290           295           300
Arg Lys Cys Pro Arg Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr
305           310           315           320
Gly His Tyr Ser Ser Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
           325           330           335

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<210> 941
<211> 381
<212> PRT
<213> Homo sapiens

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<400> 941
Met Gln His His His His His His Val Leu Trp Glu Ser Pro Arg Gln
           5           10           15
Cys Ser Ser Trp Thr Leu Cys Glu Gly Phe Cys Trp Leu Leu Leu Leu
           20           25           30
Pro Val Met Leu Leu Ile Val Ala Arg Pro Val Lys Leu Ala Ala Phe
           35           40           45
Pro Thr Ser Leu Ser Asp Cys Gln Thr Pro Thr Gly Trp Asn Cys Ser
           50           55           60
Gly Tyr Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp Thr Asn Thr
           65           70           75           80
Cys Lys Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr Val Thr Cys
           85           90           95
Val Cys Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val Cys Gly Ser
           100           105           110
Asn Gly Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln Ala Ala Cys
           115           120           125
Lys Gln Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser Cys Ala Thr
           130           135           140
Asp Ala Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly Ser Gly Glu
145           150           155           160
Thr Ser Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln Phe Gly Ala
           165           170           175

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Glu Cys Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys Asn Ile Asp  
                   180                                  185                                  190  
 Cys Ser Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp Gly Lys Ser  
                   195                                  200                                  205  
 Tyr Asp Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln Lys Gln Glu  
                   210                                  215                                  220  
 Lys Ile Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn Thr Thr Thr  
                   225                                  230                                  235                                  240  
 Thr Thr Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp Tyr Ala Glu  
                   245                                  250                                  255  
 Asn Ala Asn Lys Leu Glu Glu Ser Ala Arg Glu His His Ile Pro Cys  
                   260                                  265                                  270  
 Pro Glu His Tyr Asn Gly Phe Cys Met His Gly Lys Cys Glu His Ser  
                   275                                  280                                  285  
 Ile Asn Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly Tyr Thr Gly  
                   290                                  295                                  300  
 Gln His Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val Val Pro Gly  
                   305                                  310                                  315                                  320  
 Pro Val Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile  
                   325                                  330                                  335  
 Gln Ile Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys  
                   340                                  345                                  350  
 Pro Arg Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr  
                   355                                  360                                  365  
 Ser Ser Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile  
                   370                                  375                                  380

<210> 942  
 <211> 45  
 <212> DNA  
 <213> Homo sapiens

<400> 942  
 ctgctggcga acggcagaat gcctaccgtg ctgcagtgcg tgaac

45

<210> 943  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 943  
 Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys Val Asn  
                                   5                                  10                                  15

<210> 944  
 <211> 1883  
 <212> DNA  
 <213> Homo sapiens

<400> 944  
 tactttccaa ccagcaggtg aagagctgaa tcactaaggg cacaaatgaa aaggaggagg 60  
 caaaatatga aggcattata tttcttctga gggacgcagc tccagtctaa cttgccactc 120

tgtgaacttc actactggaa agcaacaaag gcagtcggca taaaaatggg ttctctcagc 180  
 acagctaacg ttgaattttg ccttgatgtg ttcaaagagc tgaacagtaa caacatagga 240  
 gataacatct tcttttcttc gctgagtcgt ctttatgtct taagcatggg cctccttggg 300  
 gccaggggag agactgcaga gcaattggag aaggtgcttc attttagtc aactgtagac 360  
 tcattaaaaac cagggttcaa ggactcacct aagtgcagcc aagctggaag aattcattcc 420  
 gagtttggtg tcgaattctc tcaaatacaac cagccagact ctaactgtac cctcagcatt 480  
 gccaacaggc tctacgggac aaagacgatg gcattttcatc agcaatattt aagctgttct 540  
 gagaaatggt atcaagccag gttgcaaaact gtggattttg aacagtctac agaagaaacg 600  
 aggaaaatga ttaatgcttg ggttgaaaaat aaaactaatg gaaaagtgcg aaatctcttt 660  
 ggaaagagca caattgaccc ttcatctgta atggctcctg tgaataccat atatttcaaa 720  
 ggacaaaggc aaaataaatt tcaaggtaaa aatgtaactg tggaaatgat gtatcaaatt 780  
 ggaacattta aactggcctt tgtaaaggag ccgcagatgc aagttcttga gctgcctac 840  
 gttaacaaca aattaaagc gattattctg cttccagtag gcatagctaa tctgaaacag 900  
 atagaaaagc agctgaattc ggggacgttt catgagtgg aagctcttc taacatgatg 960  
 gaaagagaag ttgaagtaca cctccccaga ttcaaacttg aaattaagta tgagctaaat 1020  
 tccctgttaa aacctctagg ggtgacagat ctcttcaacc aggtcaaagc tgatctttct 1080  
 ggaatgtcac caaccaaggg cctatattta tcaaaagcca tccacaagtc atacctggat 1140  
 gtcagcgaag agggcacgga ggcagcagca gccactgggg acagcatcgc tgtaaaaagc 1200  
 ctaccaatga gagctcagtt caaggcgaac cacccttcc tgttctttat aaggcacact 1260  
 cataccaaca cgatcctatt ctgtggcaag cttgcctctc cctaatacaga tgggggttgag 1320  
 taaggctcag agttgcagat gagtgcaga gacaatcctg tgactttccc acggccaaaa 1380  
 agctgttcac acctcacaca cctctgtgcc tcagtttgct catctgcaaa ataggtctag 1440  
 gatttcttcc aaccatttca tgagttgtga agctaaggct ttgttaatca tggaaaaagg 1500  
 tagacttatg cagaaagcct ttctggcttt cttatctgtg gtgtctcatt tgagtgtgt 1560  
 ccagtgcacat gatcaagtca atgagtaaaa ttttaaggga ttagattttc ttgacttgta 1620  
 tgtatctgtg agatcttgaa taagtgaact gacatctctg cttaaagaaa accagctgaa 1680  
 gggcttcaac tttgcttgga tttttaaata ttttcttgc atatgtaaat agaatgtgg 1740  
 gagtttttagt tcaaaattct ctgttgagaa taataaatgc atgaaatacc ttaaagctct 1800  
 gtgaagactt gtaacatggc agcaatcaaa tggcttataa aaggatactt tgaatgtgga 1860  
 taaattgaaa aaaaaaaaaa aaa 1883

<210> 945  
 <211> 2471  
 <212> DNA  
 <213> Homo sapiens

<400> 945  
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 ttttgccctg atgtgttcaa agagctgaac agtaacaaca taggagataa catcttcttt 120  
 tottgcgtga gtctgcttta tgctctaagc atggctctcc ttggtgccag gggagagact 180  
 gcagagcaat tggagaagg gcttcatttt agtcatactg tagactcatt aaaaccaggg 240  
 ttcaaggact cacctaagtg cagccaagct ggaagaattc attccgagtt tgggtgtctaa 300  
 ttctctcaaa tcaaccagcc agactctaac tgtacctca gcattgccaa caggctctac 360  
 gggacaaaga cgatggcatt tcatcagcaa tatttaagct gttctgagaa atggtatcaa 420  
 gccaggttgc aaactgtgga ttttgaacag tctacagaag aaacgaggaa aacgattaat 480  
 gcttgggttg aaaataaaac taatggaaaa gtcgcaaatc tcttttgaaa gagcacaatt 540  
 gacccttcat ctgtaatggg cctggtgaat gccatatatt tcaaaggaca atggcaaaat 600  
 aaattttcaag taagagagac agttaaaagt ccttttctcagc taagtgaggt aagtatttta 660  
 ttttcagact catgacaaat gttggaggat acaataatca ttttaaggaca atttagaaaag 720  
 atgtagtgat ttagtgaaaa tattggtcta ggtttctgtt ggttcttttt attgtatttt 780  
 ctacagattt tcatttttcc tttattaagt gacaataact tttatcacag agcacctaac 840  
 tggagacttg ggatactaag attctctggc agaggagaaa acccattctt ttcttaacgc 900  
 totctcggtc tattctttcc atatatactg tggttatggt ctccagcagc acactaaggc 960  
 tatctgtgtt attttttttt ctagagaggt tcttgaggaa agattaaaaa gaaaatgatt 1020

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<210> 946
<211> 379
<212> PRT
<213> Homo sapiens
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Met Gly Ser Leu Ser Thr Ala Asn Val Glu Phe Cys Leu Asp Val Phe  
5 10 15

Leu Ser Leu Leu Tyr Ala Leu Ser Met Val Leu Leu Gly Ala Arg Gly  
35 40 45

Asp Ser Leu Lys Pro Gly Phe Lys Asp Ser Pro Lys Cys Ser Gln Ala  
65 70 75 80

Pro Asp Ser Asn Cys Thr Leu Ser Ile Ala Asn Arg Leu Tyr Gly Thr  
100 105 110

Lys Thr Met Ala Phe His Gln Gln Tyr Leu Ser Cys Ser Glu Lys Trp

115	120	125
Tyr Gln Ala Arg Leu Gln Thr Val Asp Phe Glu Gln Ser Thr Glu Glu		
130	135	140
Thr Arg Lys Met Ile Asn Ala Trp Val Glu Asn Lys Thr Asn Gly Lys		
145	150	155
Val Ala Asn Leu Phe Gly Lys Ser Thr Ile Asp Pro Ser Ser Val Met		
	165	170
		175
Val Leu Val Asn Thr Ile Tyr Phe Lys Gly Gln Arg Gln Asn Lys Phe		
	180	185
		190
Gln Gly Lys Asn Val Thr Val Glu Met Met Tyr Gln Ile Gly Thr Phe		
	195	200
		205
Lys Leu Ala Phe Val Lys Glu Pro Gln Met Gln Val Leu Glu Leu Pro		
	210	215
		220
Tyr Val Asn Asn Lys Leu Ser Met Ile Ile Leu Leu Pro Val Gly Ile		
225	230	235
		240
Ala Asn Leu Lys Gln Ile Glu Lys Gln Leu Asn Ser Gly Thr Phe His		
	245	250
		255
Glu Trp Thr Ser Ser Ser Asn Met Met Glu Arg Glu Val Glu Val His		
	260	265
		270
Leu Pro Arg Phe Lys Leu Glu Ile Lys Tyr Glu Leu Asn Ser Leu Leu		
	275	280
		285
Lys Pro Leu Gly Val Thr Asp Leu Phe Asn Gln Val Lys Ala Asp Leu		
	290	295
		300
Ser Gly Met Ser Pro Thr Lys Gly Leu Tyr Leu Ser Lys Ala Ile His		
305	310	315
		320
Lys Ser Tyr Leu Asp Val Ser Glu Glu Gly Thr Glu Ala Ala Ala Ala		
	325	330
		335
Thr Gly Asp Ser Ile Ala Val Lys Ser Leu Pro Met Arg Ala Gln Phe		
	340	345
		350
Lys Ala Asn His Pro Phe Leu Phe Phe Ile Arg His Thr His Thr Asn		
	355	360
		365
Thr Ile Leu Phe Cys Gly Lys Leu Ala Ser Pro		
370	375	

&lt;210&gt; 947

&lt;211&gt; 617

&lt;212&gt; PRT

<213> Homo sapiens

<220>

<221> variant

<222> (1)...(617)

<223> Xaa = Any amino acid

<400> 947

Met Gly Ser Leu Ser Thr Ala Asn Val Glu Phe Cys Leu Asp Val Phe  
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Lys Glu Leu Asn Ser Asn Asn Ile Gly Asp Asn Ile Phe Phe Ser Ser  
20 25 30

Leu Ser Leu Leu Tyr Ala Leu Ser Met Val Leu Leu Gly Ala Arg Gly  
35 40 45

Glu Thr Ala Glu Gln Leu Glu Lys Val Leu His Phe Ser His Thr Val  
50 55 60

Asp Ser Leu Lys Pro Gly Phe Lys Asp Ser Pro Lys Cys Ser Gln Ala  
65 70 75 80

Gly Arg Ile His Ser Glu Phe Gly Val Xaa Phe Ser Gln Ile Asn Gln  
85 90 95

Pro Asp Ser Asn Cys Thr Leu Ser Ile Ala Asn Arg Leu Tyr Gly Thr  
100 105 110

Lys Thr Met Ala Phe His Gln Gln Tyr Leu Ser Cys Ser Glu Lys Trp  
115 120 125

Tyr Gln Ala Arg Leu Gln Thr Val Asp Phe Glu Gln Ser Thr Glu Glu  
130 135 140

Thr Arg Lys Thr Ile Asn Ala Trp Val Glu Asn Lys Thr Asn Gly Lys  
145 150 155 160

Val Ala Asn Leu Phe Gly Lys Ser Thr Ile Asp Pro Ser Ser Val Met  
165 170 175

Val Leu Val Asn Ala Ile Tyr Phe Lys Gly Gln Trp Gln Asn Lys Phe  
180 185 190

Gln Val Arg Glu Thr Val Lys Ser Pro Phe Gln Leu Ser Glu Val Ser  
195 200 205

Ile Leu Phe Ser Asp Ser Xaa Gln Met Leu Glu Asp Thr Ile Ile Ile  
210 215 220

Xaa Gly Gln Phe Arg Lys Met Xaa Xaa Phe Ser Glu Asn Ile Gly Leu  
225 230 235 240

Gly Phe Cys Trp Phe Phe Leu Leu Tyr Phe Leu Gln Ile Phe Ile Phe

				245				250				255			
Pro	Leu	Leu	Ser	Asp	Asn	Asn	Phe	Tyr	His	Arg	Ala	Pro	Asn	Trp	Arg
			260				265						270		
Leu	Gly	Ile	Leu	Arg	Phe	Ser	Gly	Arg	Gly	Glu	Asn	Pro	Phe	Phe	Ser
			275				280						285		
Xaa	Arg	Ser	Leu	Gly	Leu	Phe	Phe	Pro	Tyr	Ile	Leu	Trp	Leu	Cys	Ser
			290				295						300		
Pro	Ala	Ala	His	Xaa	Gly	Tyr	Leu	Cys	Tyr	Phe	Phe	Phe	Xaa	Arg	Val
			305				310						315		
Ser	Xaa	Gly	Lys	Ile	Lys	Lys	Lys	Met	Ile	Xaa	Xaa	Tyr	Ile	Leu	Phe
			325				330						335		
Leu	Pro	Thr	Lys	Ile	Met	Leu	Ala	Lys	Asn	Pro	Asp	Phe	Val	Phe	Gly
			340				345						350		
Arg	Pro	Ser	Tyr	Leu	Tyr	Ile	Leu	Leu	Glu	Gln	Phe	Ser	Leu	Xaa	Pro
			355				360						365		
Xaa	Leu	Ile	Leu	Asn	Xaa	Lys	Asn	Gly	Xaa	Pro	Leu	Gln	Arg	Glu	Val
			370				375						380		
Ile	Arg	Asn	Leu	Leu	Cys	Ser	Phe	Tyr	Phe	Thr	His	Ala	Phe	Arg	Val
			385				390						395		
Phe	Met	Gln	Ile	Ser	Val	Leu	Arg	Lys	Val	Ile	Ser	Thr	His	Thr	Cys
			405				410						415		
Ala	Leu	Thr	Tyr	Val	Ser	Ile	Leu	Xaa	Ser	Phe	Ser	Ser	Xaa	Gln	Gly
			420				425						430		
Lys	Asn	Val	Thr	Val	Glu	Met	Met	Tyr	Gln	Ile	Gly	Thr	Phe	Lys	Leu
			435				440						445		
Ala	Phe	Val	Lys	Glu	Pro	Gln	Met	Gln	Val	Leu	Glu	Leu	Pro	Tyr	Val
			450				455						460		
Asn	Asn	Lys	Leu	Ser	Met	Ile	Ile	Leu	Leu	Pro	Val	Gly	Ile	Ala	Asn
			465				470						475		
Leu	Lys	Gln	Ile	Glu	Lys	Gln	Leu	Asn	Ser	Gly	Thr	Phe	His	Glu	Trp
			485				490						495		
Thr	Ser	Ser	Ser	Asn	Met	Met	Glu	Arg	Glu	Val	Glu	Val	His	Leu	Pro
			500				505						510		
Arg	Phe	Lys	Leu	Glu	Thr	Lys	Tyr	Glu	Leu	Asn	Ser	Leu	Leu	Lys	Ser
			515				520						525		
Leu	Gly	Val	Thr	Asp	Leu	Phe	Asn	Gln	Val	Lys	Ala	Asp	Leu	Ser	Gly

530

535

540

Met Ser Pro Thr Lys Gly Leu Tyr Leu Ser Lys Ala Ile His Lys Ser  
545 550 555 560

Tyr Leu Asp Val Ser Glu Glu Gly Thr Glu Ala Ala Ala Ala Thr Gly  
565 570 575

Asp Ser Ile Ala Val Lys Ser Leu Pro Met Arg Ala Gln Phe Lys Ala  
580 585 590

Asn His Pro Phe Leu Phe Phe Ile Arg His Thr His Thr Asn Thr Ile  
595 600 605

Leu Phe Cys Gly Lys Leu Ala Ser Pro  
610 615

&lt;210&gt; 948

&lt;211&gt; 729

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 948

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atgcagcattc accaccatca ccacctcagg gttccggagc cgcggccccg ggaggcgaaa 60
gcggaggggg cgcgcgcgcc gaccccgctc aagccgctca cgtccttctt catccaggac 120
atcctgcggg acggcgcgca gcggcaaggc ggccgcacga gcagccagag acagcgcgac 180
ccggagccgg agccagagcc agagccagag ggaggacgca gccgcgccgg ggccagaaac 240
gaccagctga gcaccgggcc ccgcgcgcgg ccggaggagg ccgagacgct ggccagagacc 300
gagccagaaa ggcacttggg gtcttatctg ttggactctg aaaacacttc aggcgccttt 360
ccaaggcttc cccaaacccc taagcagccg cagaagcgct cccgagctgc cttctcccac 420
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cgggcccacc tggccaagaa cctcaagctc acggagaccc aagtgaagat atggttccag 540
aacagacgct ataagactaa gcgaaagcag ctctcctcgg agctgggaga cttggagaag 600
cactcctctt tgccggccct gaaagaggag gccttctccc gggcctccct ggtctccgtg 660
tataacagct atccttacta ccctacactg tactgcgtgg gcagctggag cccagctttt 720
tggtaatga                                     729

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&lt;210&gt; 949

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 949

Arg Glu Ile Ser Phe Glu Ala Cys Leu Thr Gln Met Phe Phe Ile His  
1 5 10 15

&lt;210&gt; 950

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



&lt;400&gt; 950

Asp Arg Tyr Val Ala Ile Cys His Pro Leu Arg His Ala Ala Val Leu  
 1 5 10 15  
 Asn Asn

&lt;210&gt; 951

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 951

Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His  
 1 5 10

&lt;210&gt; 952

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 952

His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu Pro Asn  
 1 5 10 15

&lt;210&gt; 953

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 953

Arg Thr Val Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys  
 1 5 10

&lt;210&gt; 954

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 954

His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg  
 1 5 10

&lt;210&gt; 955

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 955

Asn Pro Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg  
 1 5 10 15

&lt;210&gt; 956

&lt;211&gt; 14

<400> 956  
Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys  
1 5 10

<400> 957  
Tyr Ser Glu Gly Lys Ile Phe Phe Tyr Phe Leu Gly Asn Gln Ala  
1 5 10 15

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<400> 958
Val Thr Gln Ile His Lys Thr Leu Ser His Gly Asp Ile Thr Met
  1                      5                      10                     15
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<210> 959
<211> 15
<212> PRT
<213> Homo sapiens
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<400> 959  
Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr Arg Asp  
1 5 10 15

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<210> 960
<211> 15
<212> PRT
<213> Homo sapiens
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<400> 960
Leu His Thr Ile Thr Pro Pro His Thr Leu Pro Val Asp Thr Arg
  1                      5                      10                     15
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<210> 961
<211> 15
<212> PRT
<213> Homo sapiens
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<400> 961  
Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys  
1 5 10 15

<210> 962  
<211> 15

<212> PRT  
 <213> Homo sapiens

<400> 962  
 Met Ala Leu Arg Ala Ser Trp Leu Pro Gly Gly Gly Pro Gln Ala  
 1 5 10 15

<210> 963  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 963  
 Ala Tyr Ala Cys Arg Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro  
 1 5 10 15

<210> 964  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 964  
 Gln Ser Leu Pro Gln Gly Ser Tyr Val Thr Val Gly Phe Leu Val  
 1 5 10 15

<210> 965  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

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 Pro Gln Ile Cys Ala Cys Gln Thr Arg Pro Asn Trp Leu Asn Glu  
 1 5 10 15

<210> 966  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 966  
 His Leu Arg Ser Lys Val Tyr Ala Ala Phe Gly Gly Ser Ser Pro  
 1 5 10 15

<210> 967  
 <211> 1292  
 <212> DNA  
 <213> Homo sapiens

<400> 967  
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 tccacgggtca gccttgcggt aagcttgtgt gcttagagga acccagggtg acgatggggc 180

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aaactgaaag taaatatgcc tcttatctca gctttattaa aattctttta agaagagggg 240
gagttagagc ttctacagaa aatctaatta cgctatttca aacaatagaa caattctgcc 300
catggtttcc agaacaggga actttagatc taaaagattg ggaaaaaatt ggcaaagaat 360
taaaacaagc aaatagggaa ggtaaaatca tcccacttac agtatggaat gattggggcca 420
ttattaaagc aactttagaa ccatttcaaa caggagaaga tattgtttca gtttctgatg 480
cccctaaaag ctgtgtaaca gattgtgaag aagaggcagg gacagaatcc cagcaaggaa 540
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taaaagatat aaaggaagga gttaaacaat at 1292

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<210> 968
<211> 373
<212> PRT
<213> Homo sapiens

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<400> 968
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Ile Leu Leu Arg Arg Gly Gly Val Arg Ala Ser Thr Glu Asn Leu Ile
      20                      25                      30

Thr Leu Phe Gln Thr Ile Glu Gln Phe Cys Pro Trp Phe Pro Glu Gln
      35                      40                      45

Gly Thr Leu Asp Leu Lys Asp Trp Glu Lys Ile Gly Lys Glu Leu Lys
      50                      55                      60

Gln Ala Asn Arg Glu Gly Lys Ile Ile Pro Leu Thr Val Trp Asn Asp
      65                      70                      75                      80

Trp Ala Ile Ile Lys Ala Thr Leu Glu Pro Phe Gln Thr Gly Glu Asp
      85                      90                      95

Ile Val Ser Val Ser Asp Ala Pro Lys Ser Cys Val Thr Asp Cys Glu
      100                     105                     110

Glu Glu Ala Gly Thr Glu Ser Gln Gln Gly Thr Glu Ser Ser His Cys
      115                     120                     125

Lys Tyr Val Ala Glu Ser Val Met Ala Gln Ser Thr Gln Asn Val Asp
      130                     135                     140

Tyr Ser Gln Leu Gln Glu Ile Ile Tyr Pro Glu Ser Ser Lys Leu Gly

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145                      150                      155                      160  
 Glu Gly Gly Pro Glu Ser Leu Gly Pro Ser Glu Pro Lys Pro Arg Ser  
                                  165                      170                      175  
 Pro Ser Thr Pro Pro Pro Val Val Gln Met Pro Val Thr Leu Gln Pro  
                                  180                      185                      190  
 Gln Thr Gln Val Arg Gln Ala Gln Thr Pro Arg Glu Asn Gln Val Glu  
                                  195                      200                      205  
 Arg Asp Arg Val Ser Ile Pro Ala Met Pro Thr Gln Ile Gln Tyr Pro  
                                  210                      215                      220  
 Gln Tyr Gln Pro Val Glu Asn Lys Thr Gln Pro Leu Val Val Tyr Gln  
                                  225                      230                      235                      240  
 Tyr Arg Leu Pro Thr Glu Leu Gln Tyr Arg Pro Pro Ser Glu Val Gln  
                                  245                      250                      255  
 Tyr Arg Pro Gln Ala Val Cys Pro Val Pro Asn Ser Thr Ala Pro Tyr  
                                  260                      265                      270  
 Gln Gln Pro Thr Ala Met Ala Ser Asn Ser Pro Ala Thr Gln Asp Ala  
                                  275                      280                      285  
 Ala Leu Tyr Pro Gln Pro Pro Thr Val Arg Leu Asn Pro Thr Ala Ser  
                                  290                      295                      300  
 Arg Ser Gly Gln Gly Gly Ala Leu His Ala Val Ile Asp Glu Ala Arg  
                                  305                      310                      315                      320  
 Lys Gln Gly Asp Leu Glu Ala Trp Arg Phe Leu Val Ile Leu Gln Leu  
                                  325                      330                      335  
 Val Gln Ala Gly Glu Glu Thr Gln Val Gly Ala Pro Ala Arg Ala Glu  
                                  340                      345                      350  
 Thr Arg Cys Glu Pro Phe Thr Met Lys Met Leu Lys Asp Ile Lys Glu  
                                  355                      360                      365  
 Gly Val Lys Gln Tyr  
                                  370

&lt;210&gt; 969

&lt;211&gt; 50

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 969

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<210> 970  
 <211> 31  
 <212> DNA  
 <213> Homo sapiens

<400> 970  
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<210> 971  
 <211> 45  
 <212> DNA  
 <213> Homo sapiens

<400> 971  
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<210> 972  
 <211> 60  
 <212> DNA  
 <213> Homo sapiens

<400> 972  
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<210> 973  
 <211> 30  
 <212> DNA  
 <213> Homo sapiens

<400> 973  
 acggatttcg tgggcgaggg gctgtaccag 30

<210> 974  
 <211> 24  
 <212> DNA  
 <213> Homo sapiens

<400> 974  
 acggatttcg tgggcgaggg gctg 24

<210> 975  
 <211> 32  
 <212> DNA  
 <213> Homo sapiens

<400> 975  
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<210> 976  
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 <212> DNA  
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<400> 976

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<400> 977  
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5 10 15

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<400> 979  
Gly Ala Ser Ala Cys Asp Val Ser Val Arg Val Val Val Gly Glu  
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<400> 980  
Thr Asp Phe Val Gly Glu Gly Leu Tyr Gln  
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<400> 981  
Thr Asp Phe Val Gly Glu Gly Leu  
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<210> 982  
<211> 10

Gln Leu Cys Cys Arg



20

<210> 987  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 987  
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 Leu Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val Thr  
                   20                  25                  30

<210> 988  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 988  
 Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu  
                   5                  10                  15

<210> 989  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 989  
 Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser Gly Trp  
                   5                  10                  15

<210> 990  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 990  
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                   5                  10                  15